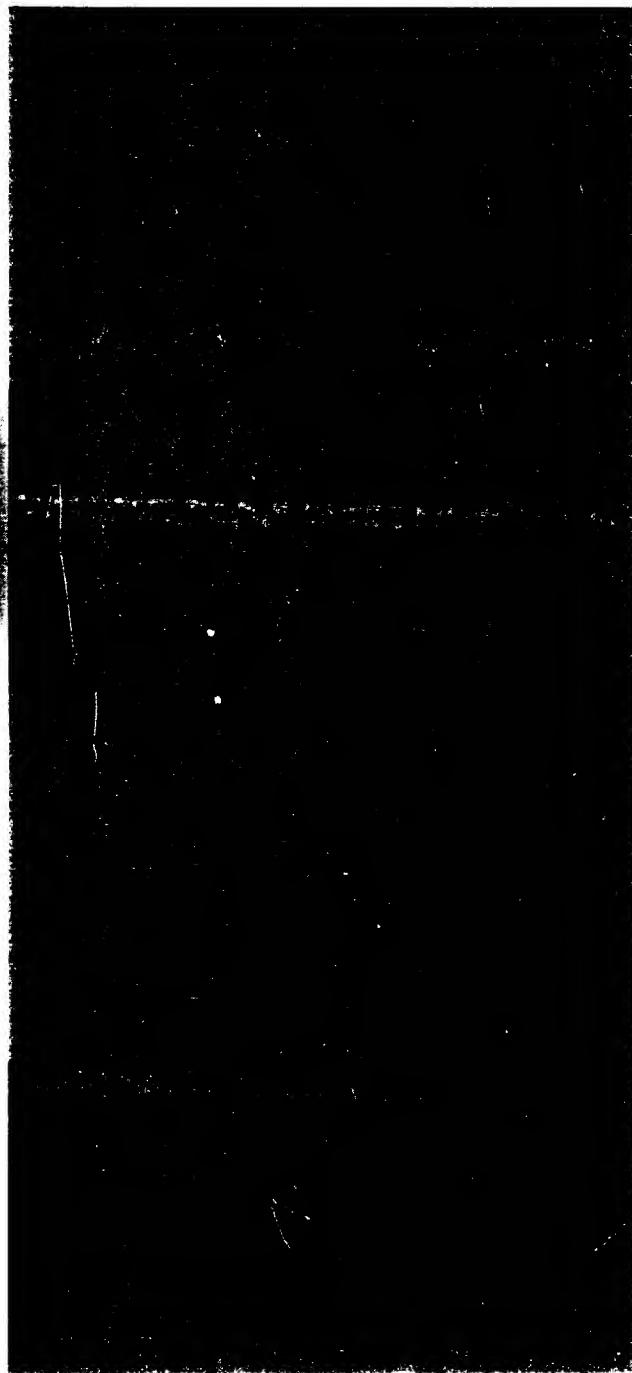
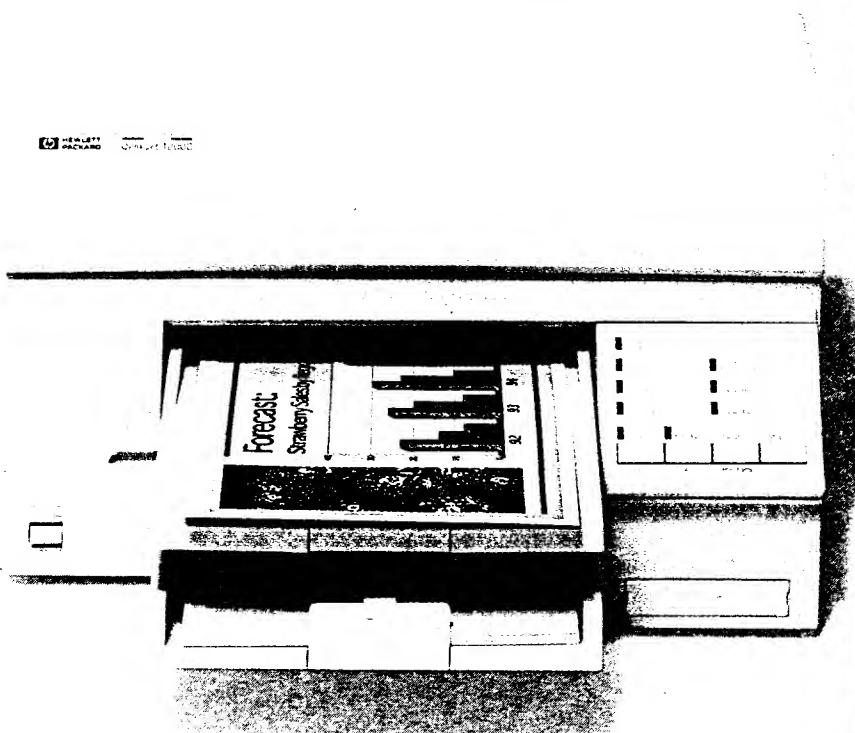




HP DeskJet 1200C and 1200C/PS

Color Printers User's Guide



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Warning

The Warning label calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in **personal injury**. Do not proceed beyond a Warning label until the indicated conditions are fully understood and met.

Caution

The Caution label calls attention to an operating procedure, practice, or the like, which, if not correctly performed or adhered to, could result in **damage to or destruction of part or all of the product**. Do not proceed beyond a Caution label until the indicated conditions are fully understood and met.

Regulatory information can be found in the "Technical Information" chapter of this User's Guide.

Owner's Information

Printer:

Serial Number:

Date of Purchase:

Place of Purchase:

Address:

Phone Number:

Service Contract Number:

Date of Contract Expiration:

All information that you need to use your printer is in this User's Guide. An optional User's Reference is available for your HP DeskJet 1200C and HP DeskJet 1200C/PS.

The User's Reference is available in *ENGLISH ONLY*.

The User's Reference includes details on:

- how the printer works
- types of media
- limited PCL information for non-technical users, including:
 - ◊ embedding escape sequences in software
 - ◊ job control commands
 - ◊ page control commands
 - ◊ font selection and management
 - ◊ downloading raster graphics

Order form for the HP DeskJet 1200C User's Reference Guide
Part Number C1676-90031

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Credit Card #

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Mail or fax your order form along with payment to the address that is appropriate for your continent. Use these addresses only for ordering the User's Reference. Other correspondence cannot be responded to. For other questions, please contact your dealer.

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table of contents	1	2	3	4	5
chapter titles	1	2	3	4	5
section headings	1	2	3	4	5
cross references	1	2	3	4	5
index	1	2	3	4	5
Organization	1	2	3	4	5
Completeness	1	2	3	4	5
Accuracy	1	2	3	4	5
Readability	1	2	3	4	5
language usage	1	2	3	4	5
page layout	1	2	3	4	5
Illustrations	1	2	3	4	5

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	Far Below Expectations	Below Expectations	Meets Expectations	Exceeds Expectations	Far Exceeds Expectations	Did Not Use
Getting Started	1	2	3	4	5	0
Using media and cartridges	1	2	3	4	5	0
Using the control panel	1	2	3	4	5	0
Troubleshooting	1	2	3	4	5	0
Installing printer options	1	2	3	4	5	0
Ordering information	1	2	3	4	5	0

Please tell us which sections you read or looked through.

Chapter 1 Chapter 3 Chapter 5 Technical information
 Chapter 2 Chapter 4 Chapter 6 Ordering information

Your comments: _____

Name: _____

Company: _____

Address: _____

Telephone: _____

Thank you for your help! If you would rather fax this information to us, our fax number is: 1-619-592-4912.

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1st Edition 4/93, manual P/N C1676-90001



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User's Guide

HP DeskJet 1200C

Regarding this document...

Our world is rapidly growing smaller as the needs for global communication become increasingly larger. We at Hewlett-Packard want to provide you with documentation that can be understood globally as well as locally. Our goal is to accommodate a wide audience with easily understood documentation. A language shared by more than one culture challenges this goal with idiomatic differences. While you personally may have chosen a different word or phrase, it is our hope that the terms and expressions in this document none the less are clear and understandable. This is our sincere and best effort at creating documentation that is globally understood and accepted.

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Getting Started

Getting help

Hewlett-Packard has support services available to help you in case you have a problem with your HP DeskJet 1200C printer. Following are suggestions of places to turn to for this support.

Before you call for customer support, make sure you do the following:

- 1 Review the "Troubleshooting" chapter of this User's Guide.
- 2 Print the built-in self test described in this chapter.
- 3 Make sure you are using the correct interface cables and rear-panel switch settings, as explained in Chapter 3 of this User's Guide.
- 4 Check with your software vendor for help.

If you still have difficulty, begin by contacting the person who sold you your HP DeskJet 1200C. Your sales representative or dealer is familiar with your needs, equipment, and software and should be able to provide you with the information you want.

In the U.S., if you don't get the answers to your questions from your dealer or sales representative, you may contact HP's Customer Support Center (CSC) line. The HP CSC staff can provide you with help by answering questions on your printer or accessories supplied with your printer.

The HP Customer Support Center service is available from 7 am to 6 pm (Mountain Standard Time), Monday through Friday, except Wednesday (7 am to 4 pm).

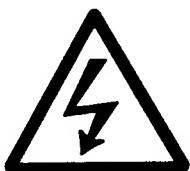
(208) 323-2551

Should the printer require service (U.S. only), please refer to "Returning your printer for service" in Chapter 5 of this User's Guide for instructions.

Safety symbols



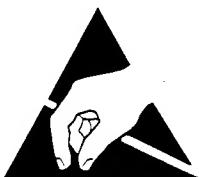
This symbol is placed on the printer where it is necessary for you to refer to the manual in order to understand a hazard.



This symbol is placed on the printer within the area where hazardous voltage is present. Only trained service persons should perform work in this area.

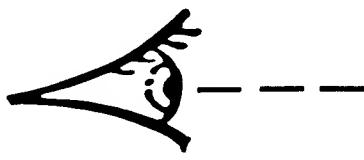


This symbol is placed on the printer within the area where hot surfaces are present. Allow the printer to cool before performing work in this area.

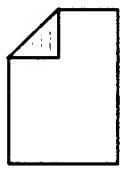


This symbol is placed on the printer within the area where the possibility of electrostatic discharge (ESD) may occur. ESD can damage the printer's electronic components. Avoid touching electronic components or circuit paths. Use proper grounding devices when circuits are open to outside areas.

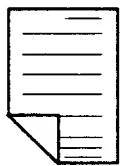
Help symbols



This symbol is placed on the printer where it is necessary to refer to the manual to ensure that procedures are completed successfully.



This symbol is located on the input (lower) media tray and indicates that media must be positioned with the print side down and top-of-page forward (closest to printer).



This symbol is located on top of the printer at the manual feed slot and indicates that a sheet of media must be inserted with the print side facing the front of the printer and the top-of-page down.



This symbol is located on top of the printer at the manual feed slot and indicates that an envelope must be inserted with the print side facing the front of the printer and the stamped corner down.

Checklist for setting up your printer

To properly set up your printer, follow the procedures in this guide in the *exact* order as shown below (titles of procedures are listed).

	<u>PAGE</u>
1	Unpack the printer
2	Identify your printer's features
3	Attach the control-panel overlay
4	Load the print cartridges
5	Install the media trays
6	Load a stack of media
7	Connect the power cord
8	Print a self test
9	Connect the interface cable
10	Installing your printer driver

As you perform various tasks in this guide, you will notice an arrow or square at the bottom-right corner of each page. The arrow indicates that the procedure continues on the next page. The square indicates that the procedure has ended.

Unpack the printer

Carefully unpack and inspect the printer and accessories. Compare the parts you received with those shown on the next page.

If any parts are missing, contact the dealer or HP Sales and Support Office where you purchased the printer. If you received your printer in damaged condition, notify the dealer or HP Sales and Support Office where you purchased the printer. Then file a claim with the carrier.

Save the carton and packing materials in case you ever need to ship your printer. Be sure to check local, state, and national laws governing the disposal of any material associated with this product.

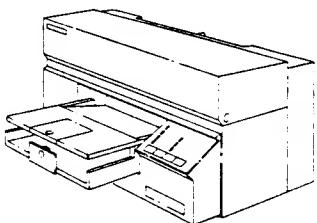
For information on ordering additional supplies, refer to the “Ordering information” chapter of this manual.

Important

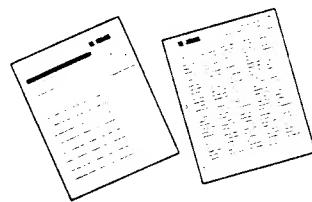
An interface cable (required to connect the printer to a computer) is not included with your printer and must be purchased separately. Refer to the “Ordering information” chapter of this manual or consult your dealer to decide which interface cable you need for your computer.

What's inside the box

HP DeskJet 1200C
or 1200C/PS Color Printer
(media trays shown installed)



Ordering Guide



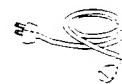
Control-Panel Overlay



Media Sampler



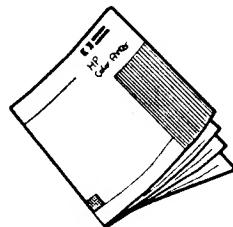
Power Cord



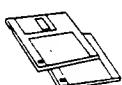
Four Print Cartridges



DeskJet 1200C User's Guide



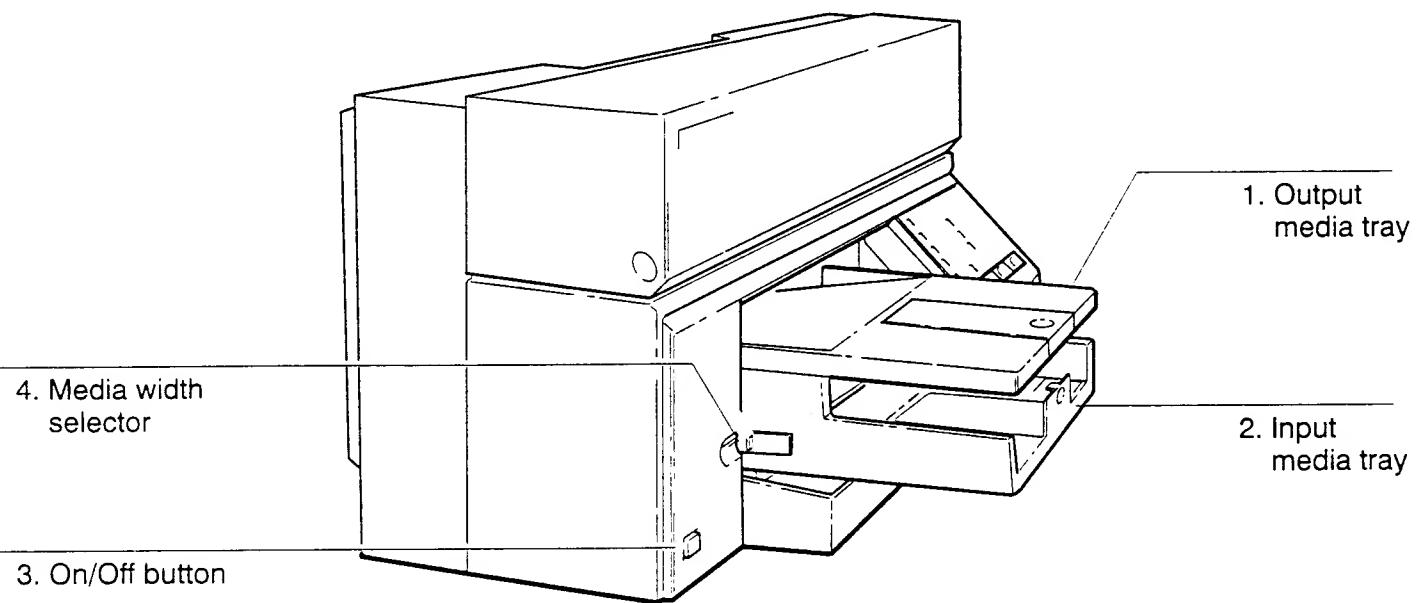
Printer Drivers



Identify your printer's features

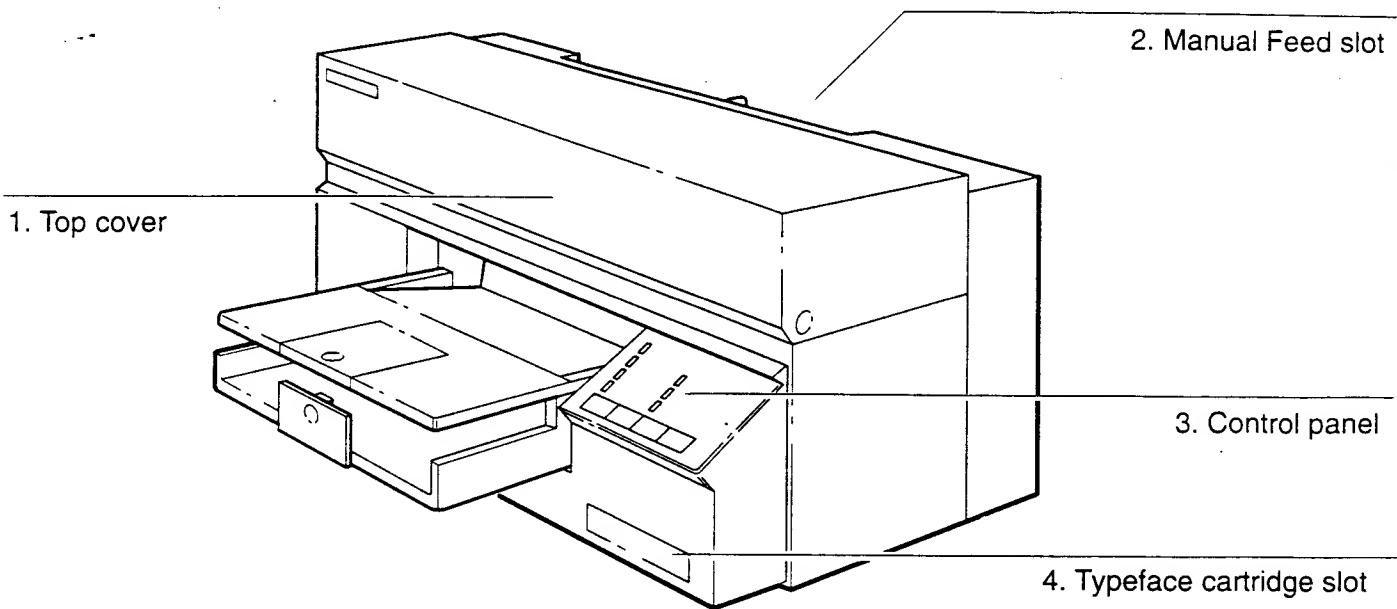
This section will familiarize you with the front and rear printer areas.

Left-front area



- 1 **Output media tray** — Holds output media for unattended printing.
- 2 **Input media tray** — Holds a stack of media for automatic loading.
- 3 **On/Off button** — Sets the printer to Off (standby) or On (ready).
- 4 **Media width selector** — Adjusts the printer to the width of the media being used (Letter or A4). The media-width selector position is correct only when fully forward or fully back.

Right-front area



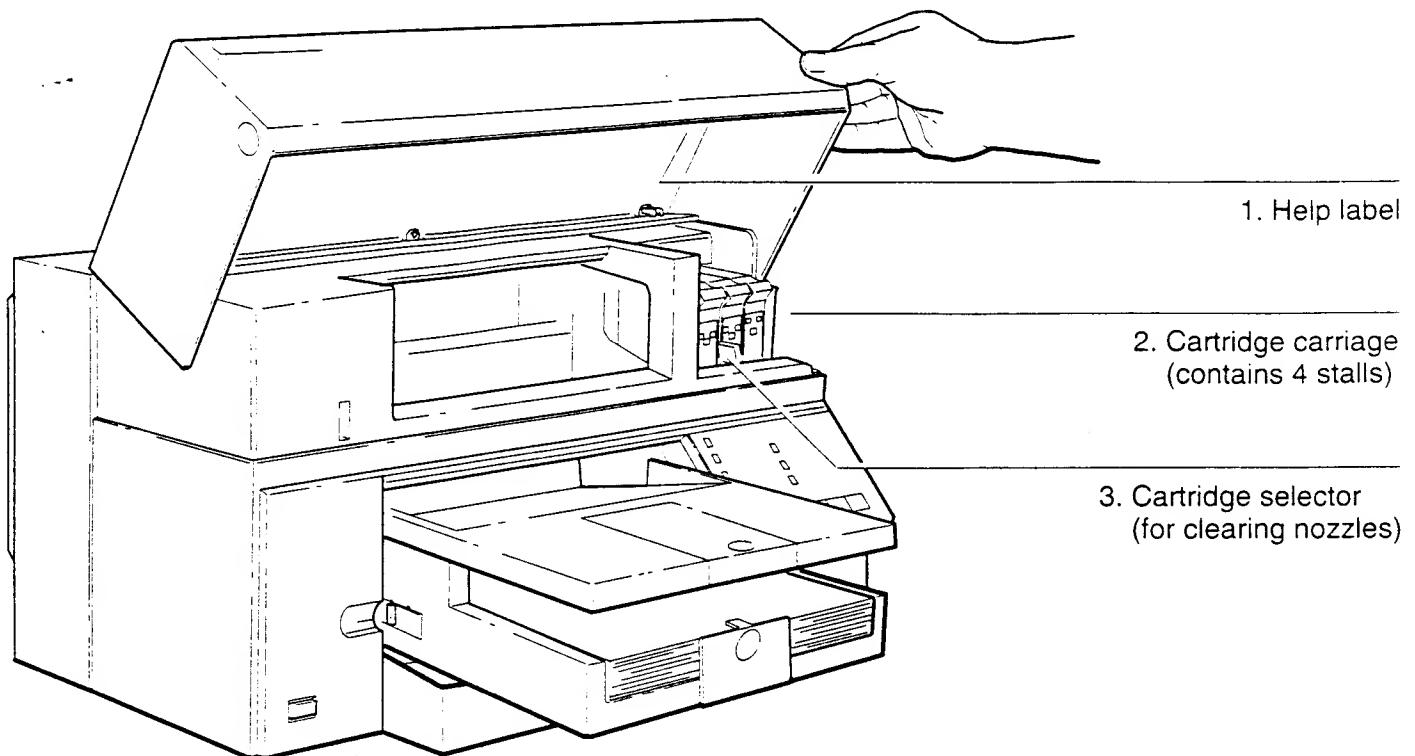
- 1 **Top cover** — Protects print cartridges and cartridge carriage.

Important

The top cover must be closed before starting any print job.

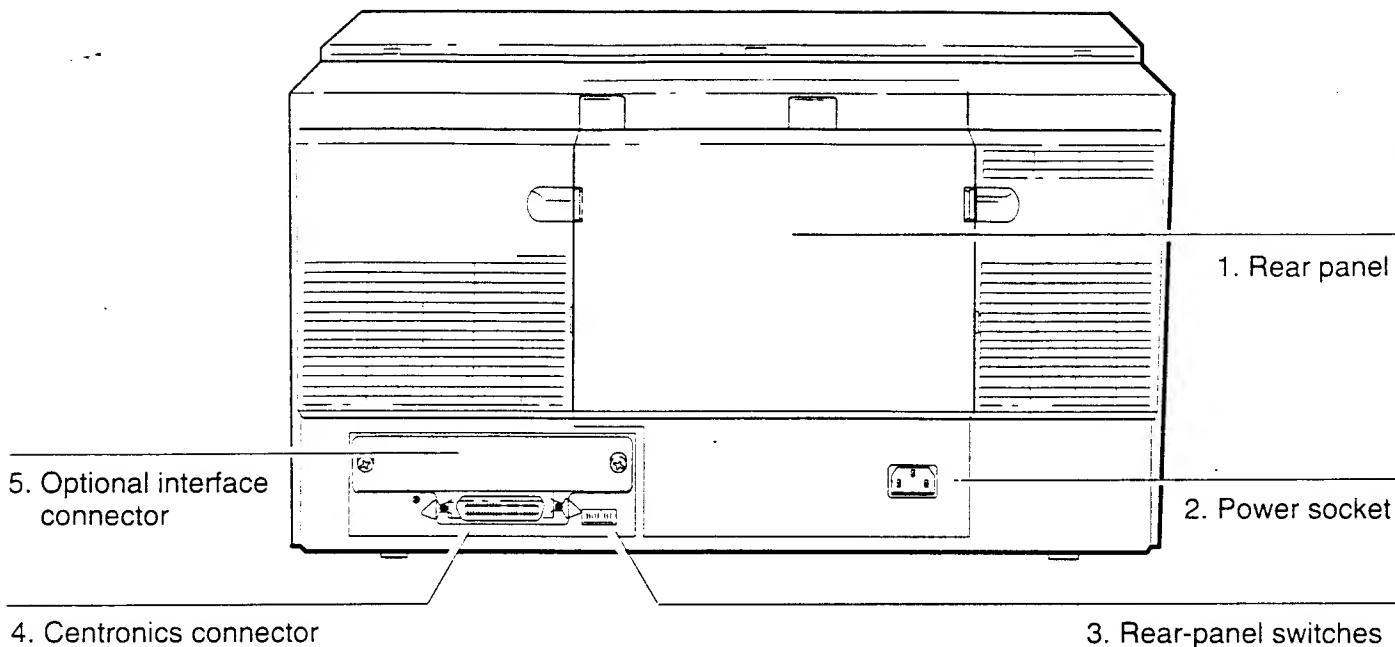
- 2 **Manual feed slot** — Allows paper, label stock, and envelopes to be manually fed into the printer.
- 3 **Control panel** — Contains buttons for using various printer features and lights to indicate the function being performed, mode, or problem that may occur.
- 4 **Typeface cartridge slot** — Allows an optional typeface cartridge to be used with the printer. (LaserJet or LaserJet-compatible cartridges will work.)

Print Cartridge area



- 1 **Help label** — Contains instructional diagrams for loading print cartridges.
- 2 **Cartridge carriage** — Holds four replaceable print cartridges.
- 3 **Cartridge selector** — Selects print cartridge. Move this lever to the print cartridge that has clogged nozzles you want to clear.

Rear printer area



1 Rear panel — Allows access to rear media path and expanded-memory area.

2 Power socket — Accepts plug from power cord.

3 Rear-panel switches — Sets default printer options. Used mainly by DOS users.

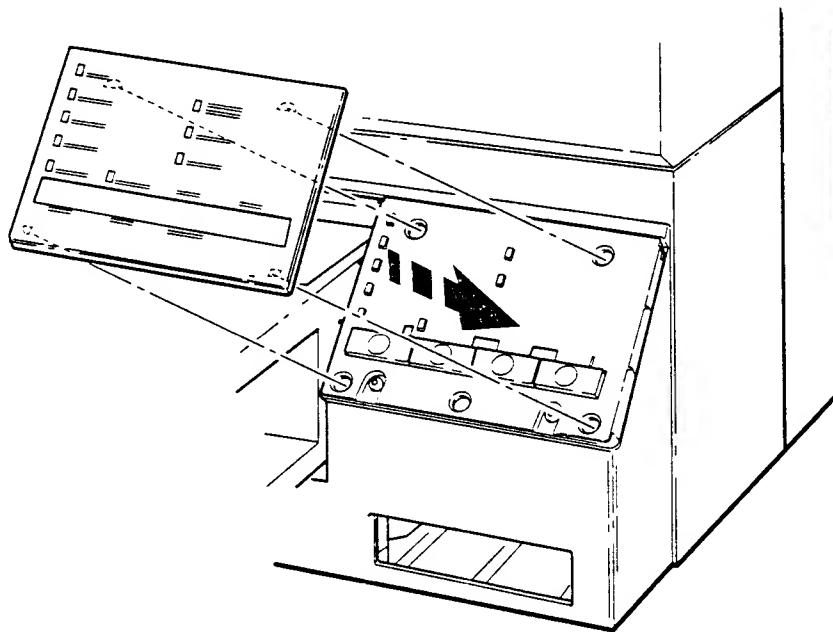
4 Centronics connector — Accepts the parallel Centronics interface cable connecting the printer to a computer or network.

5 Optional interface connector — Allows the printer to accept optional HP JetDirect interface cards.

Attach the control-panel overlay

Your printer has a separate control-panel overlay labeled in the language of the country where the printer is being shipped. The control-panel overlay snaps on and off.

- 1 Place the control-panel overlay onto the control panel so that the tabs are aligned with the holes on the control panel.
- 2 Press the overlay onto the control panel until it firmly snaps into place.



Load the print cartridges

Important

Users with color-vision deficiencies can refer to Chapter 4, page 4-12, for installing print cartridges in the proper color sequence.

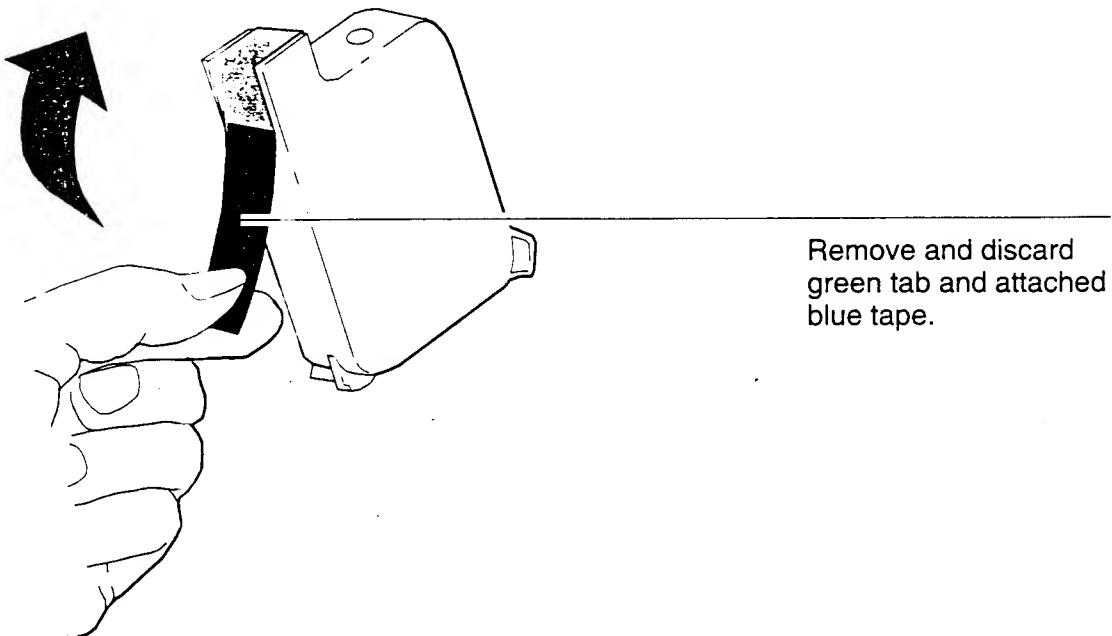
Important

You will hear two "snap" sounds when you install a print cartridge. The first snap when you place the print cartridge *down* into the stall, and a second snap when you push the cartridge *forward* in the stall. Use firm force to push the cartridge forward, you will not damage the cartridge or printer by doing so.

CAUTION

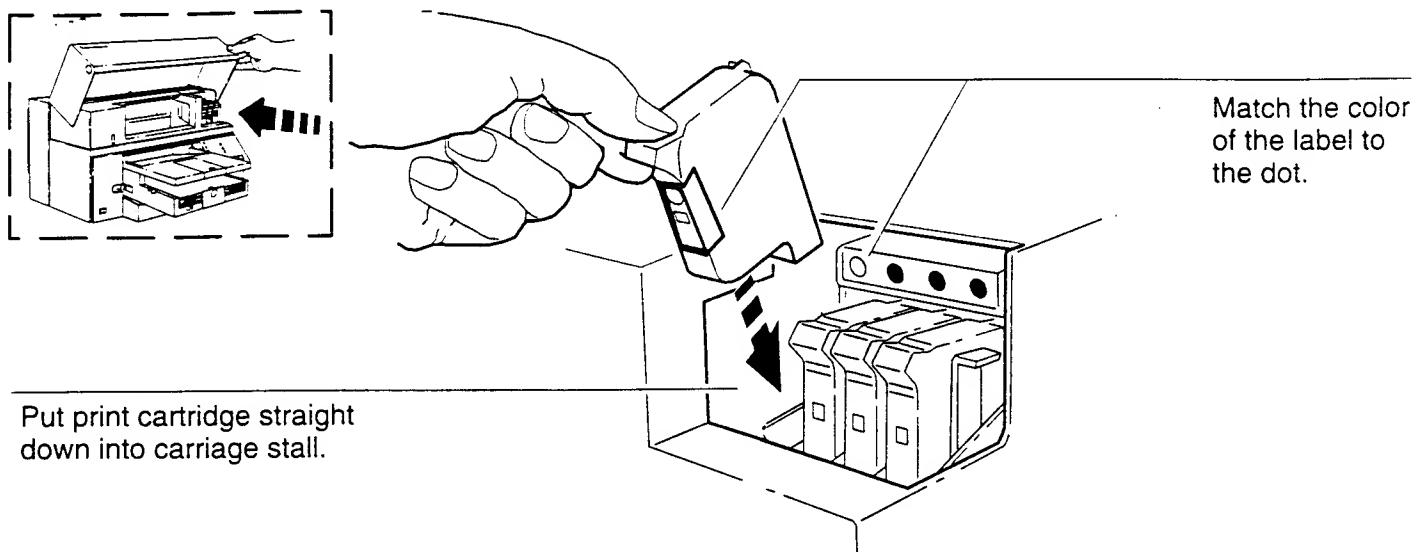
Hold the cartridge by the black areas only. The color of the ink in the print cartridge (shown on the outer edge of the label) must match the color of the dot above the cartridge stall.

- 1 Remove the print cartridge from the carton.
- 2 Remove the blue transparent tape from the print cartridge nozzles by pulling on the green tab as shown in the illustration below.

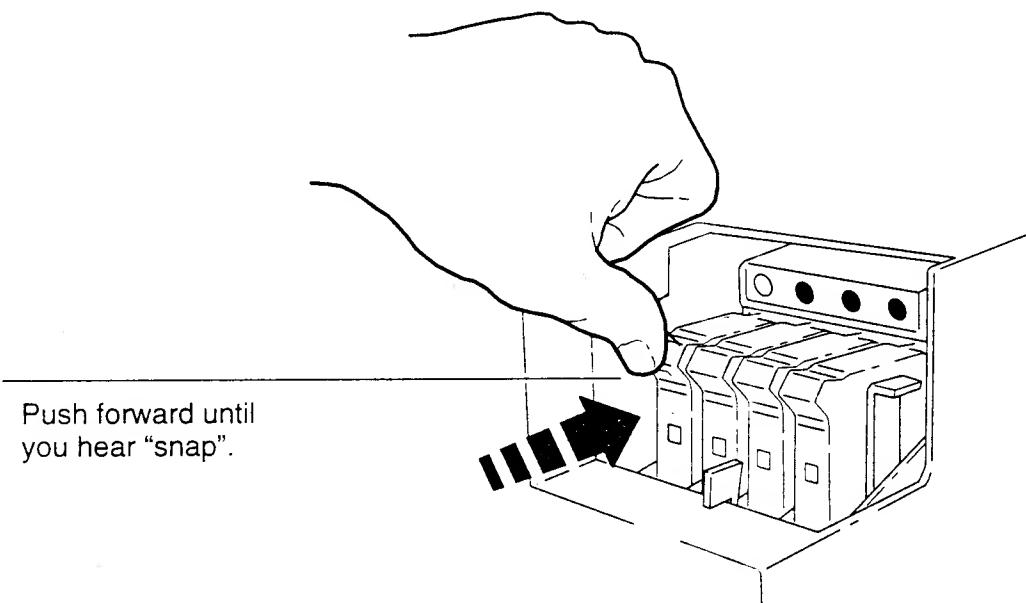


Getting started
Installing print cartridges

3 Raise the top cover and place the correct color print cartridge into the carriage stall (you will hear the first snap). The illustration below shows the yellow cartridge going into yellow stall.



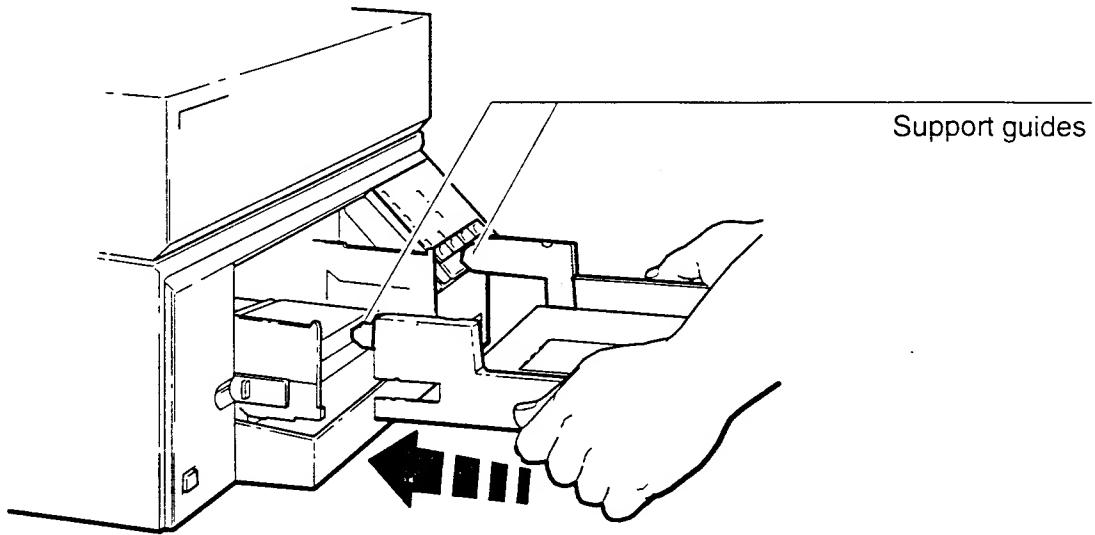
4 Push the print cartridge forward until it is firmly set in place (until the cartridge can go no further). You will hear the second snap sound when it is fully forward.



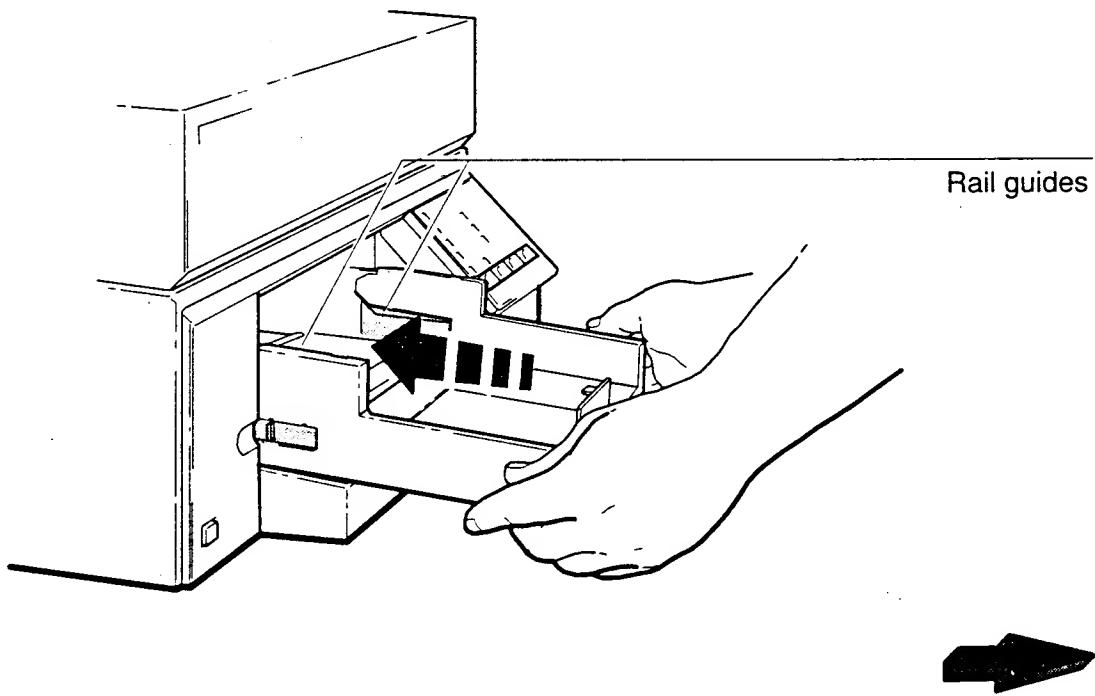
5 Repeat steps 1 through 4 until all four print cartridges have been installed as shown above.

Install the media trays

- 1 Hold the input (lower) media tray so that the tray support guides are pointing towards the front of the printer.

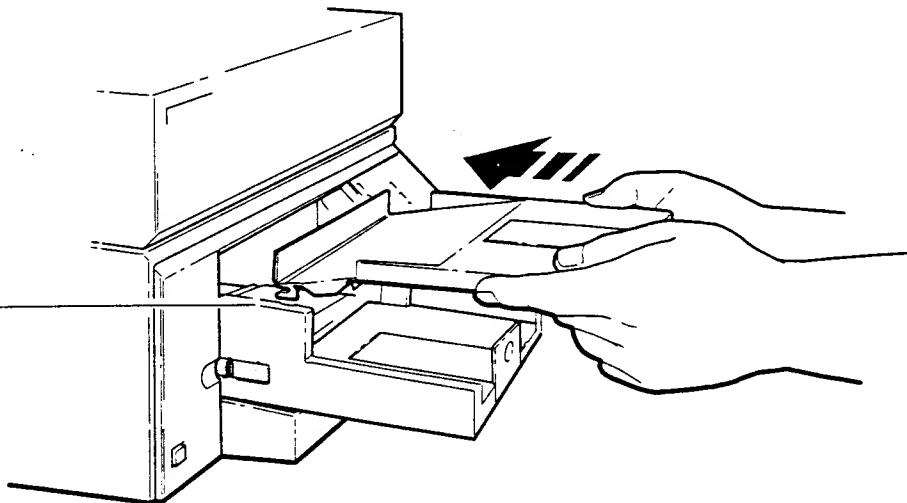


- 2 Slide the tray forward along the rail guides of the printer until the media tray snaps firmly into place.

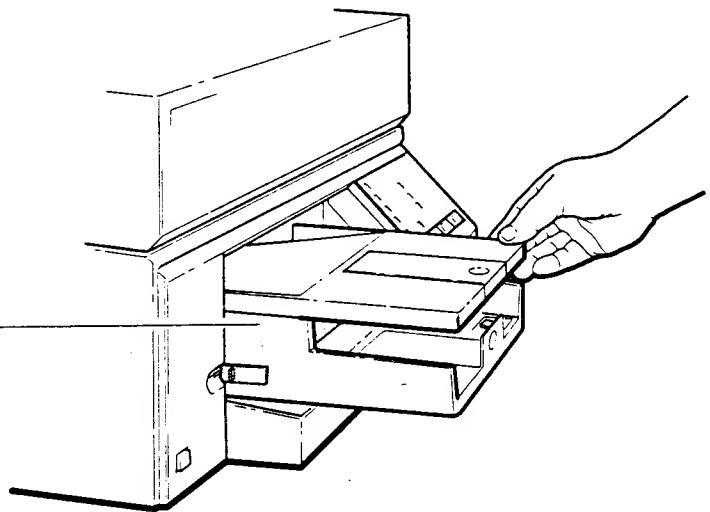


Getting started
Installing media trays

3 Insert the output (top) tray as far forward as it will go.



4 Lower the tray until it settles firmly on top of the lower tray.

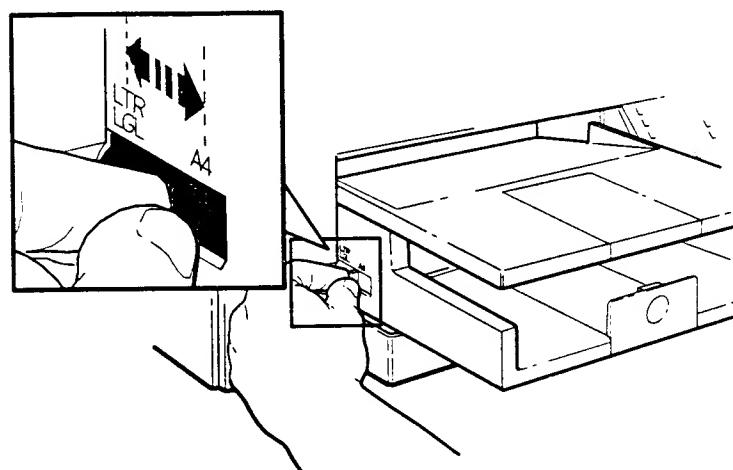


Load a stack of media (automatic loading)

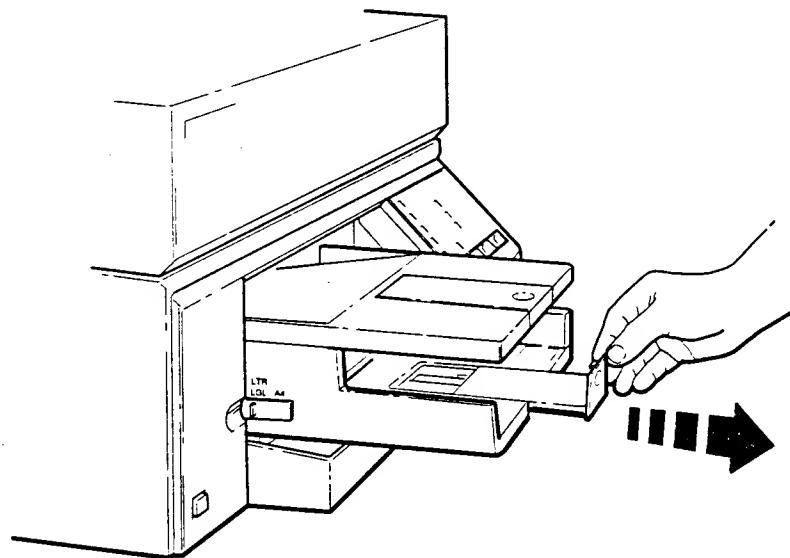
- 1 Move the media-width selector on the left side of the lower paper tray all the way to one end or the other to load letter-, legal-, or A4-size media.

Important

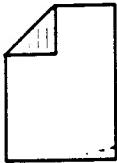
The media-width selector position is correct only when fully forward or fully back.



- 2 Set the media-size switch on the back of the printer for letter- or A4-size media (refer to page 3-17).
- 3 Pull the media length adjuster from the lower paper tray until it comes to a stop.

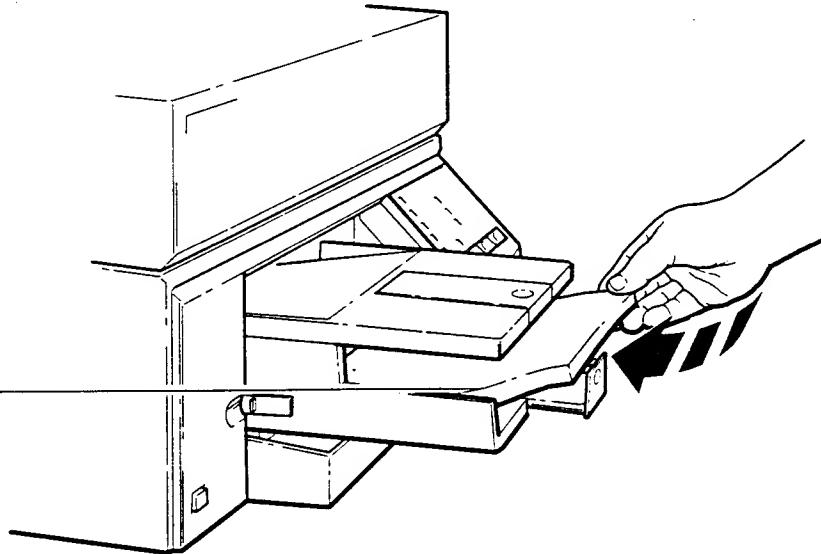


Getting started
Loading media

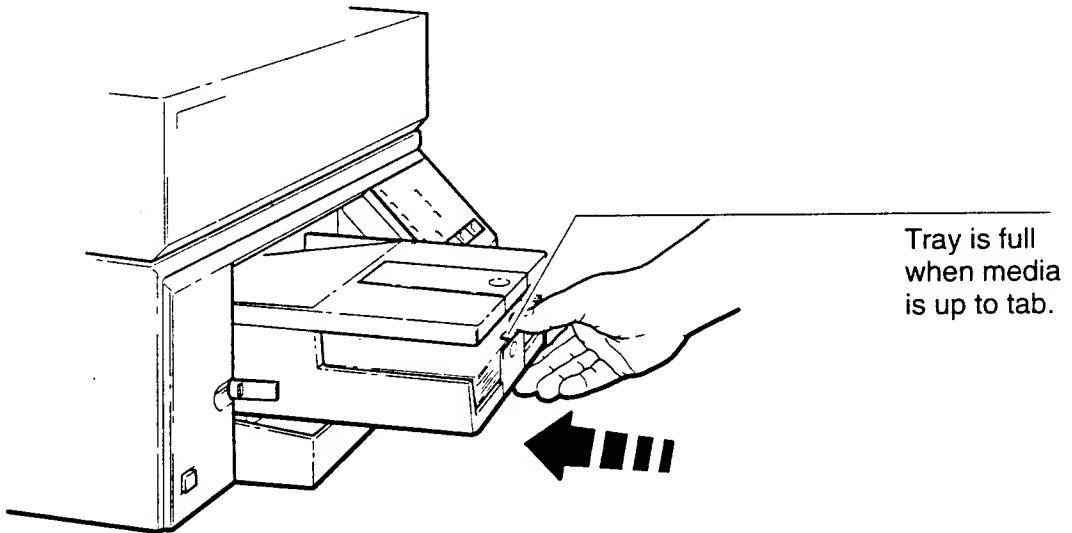


4 Insert a stack of media fully forward into the input (lower) tray with print side down and letter head first. Make sure the media is laying flat at all its corners and is not laying on top of any obstructions. Media can be inserted with the upper tray on or off.

Insert media fully forward with print side down and letterhead first.



5 Push the media length adjuster forward so that the media is fully inserted into the printer and the adjuster comes to a stop. The adjuster may not go all the way forward, depending on the length of the media.



Connect the power cord

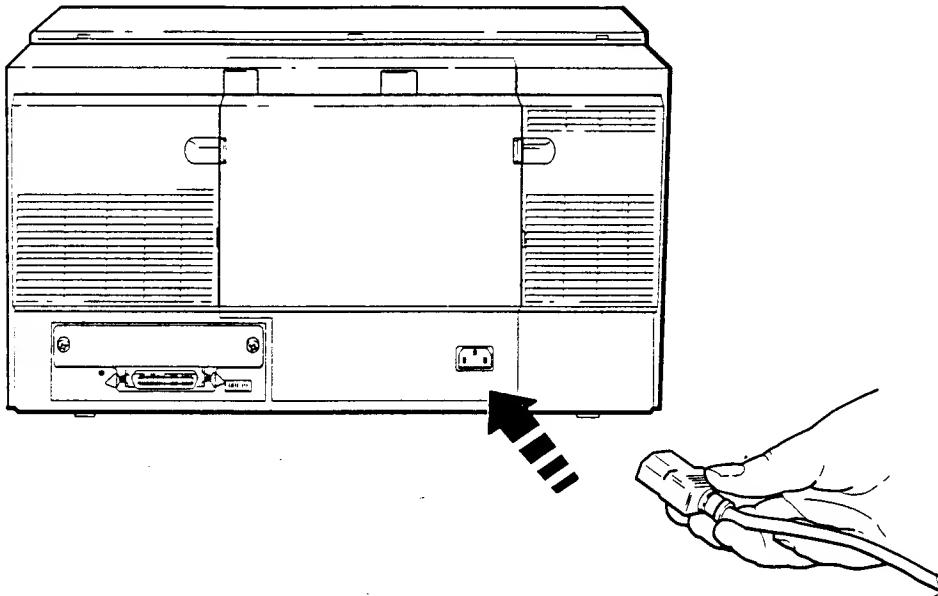
The printer comes with the power cord for the country to which it is shipped. If the plug on your power cord doesn't look familiar, contact your dealer or local HP Sales and Support Office.

WARNING

In case of emergencies, be sure that the plug in the outlet is readily accessible to all persons. Power is present in the printer even if the On/Off button is off. To completely shut off power, you must disconnect the power cord.

Be sure to use the power cord with a properly grounded outlet to avoid electric shock.

- 1 Insert the connector on the power cord into the power socket on the back of the printer.

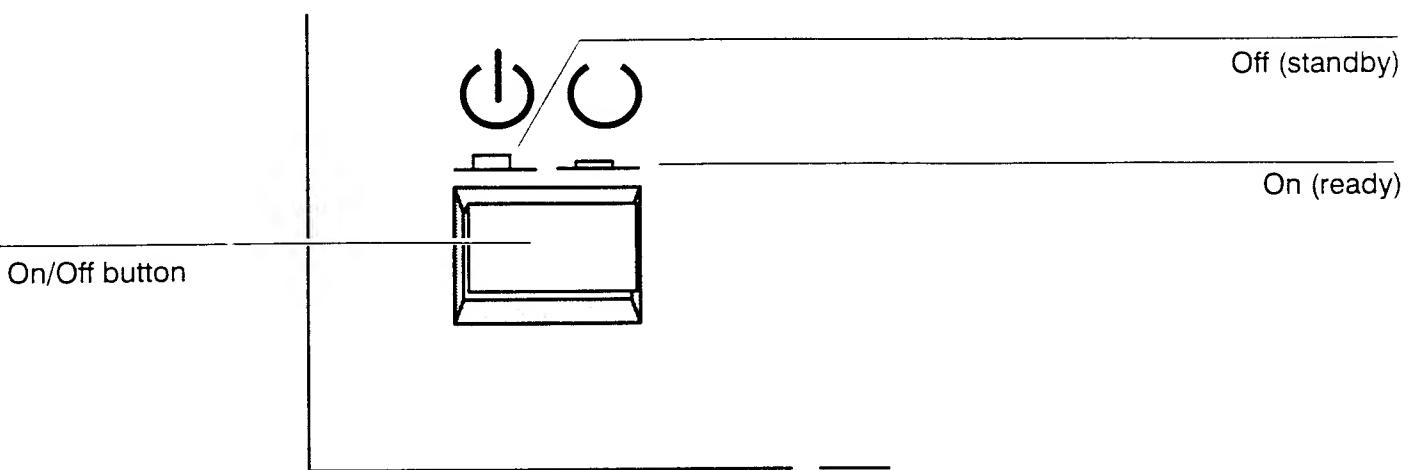


- 2 Insert the other end of the power cord into a properly grounded power outlet.

On/Off button

Important

The On/Off button, when in the Off (raised) position, puts the printer in a “standby” condition (however, any data in the printer’s memory is erased). This means that although the printer is not functional, there is still power applied. When the On/Off button is set to the On (depressed) position, the printer is “ready” to print after completing an initialization sequence. The illustration below shows the button settings and associated symbols.

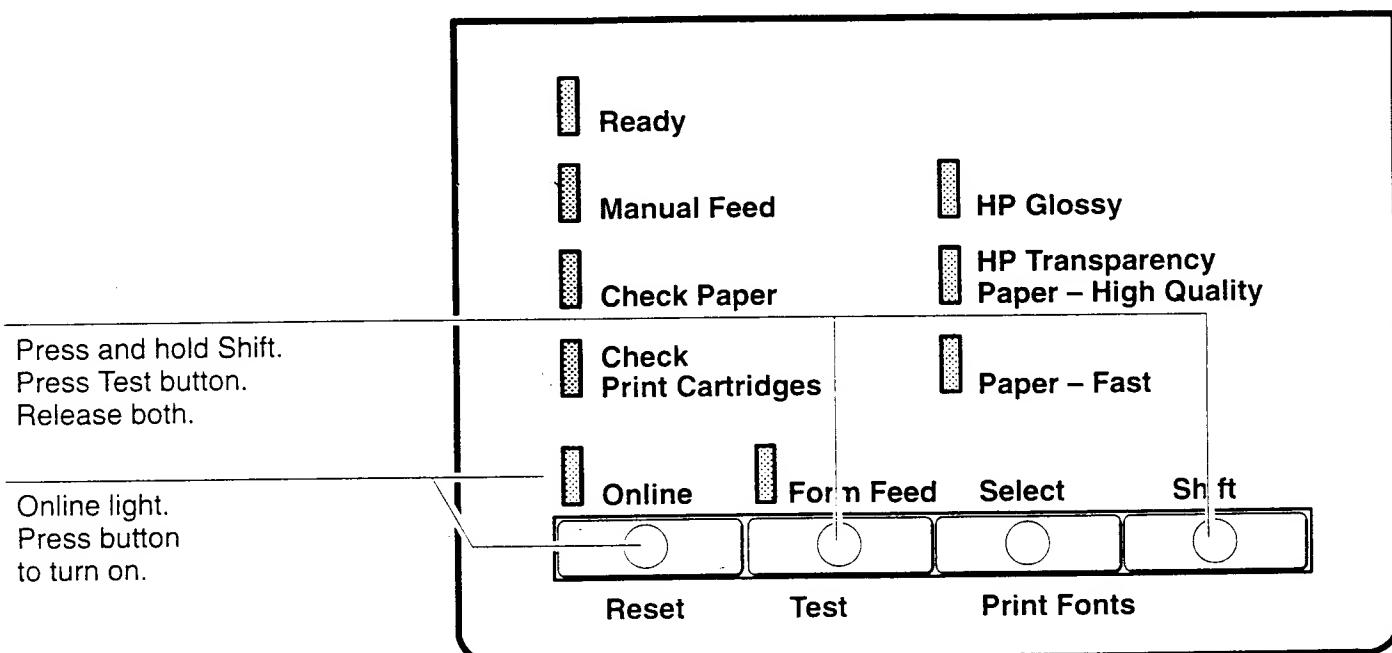


The top cover must be closed before and during the entire time the printer is initializing or printing. If you open the carriage cover during the time the printer is initializing, the printer will not initialize properly. A table is provided in chapter 5 “Troubleshooting” that will help you if the printer does not initialize properly.

Print a self test

Use the printer's built-in self test to verify that the printer and print cartridges are operating properly. (The printer does not have to be connected to a computer to run the self test.)

- 1 Make sure paper is loaded in the media tray, print cartridges are loaded and pushed fully forward, and the top cover is closed.
- 2 Turn the printer on by pressing the **On/Off** button.
- 3 Make sure the Ready light is on and the Online light is on.
- 4 Press and hold the **Shift** button, press the **Test** button, then release both to print the self test.



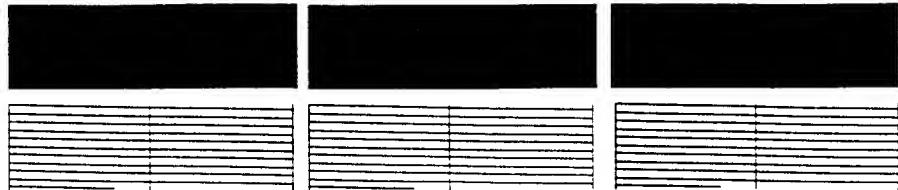
Getting started

Self test

Four color bars and lines on the self test should appear solid as shown below.

The intensity of the colors will vary depending on the type of media (bond paper, special paper, glossy paper) used.

Each bar is
a solid color



Performing the self test at this point in the printer setup is designed to ensure the printer is working properly before you connect it to your computer.

Some thin random streaks may appear in the color bars when the self test is printed. This may not affect the quality of your print job. After you connect the printer to your computer, print a file from a software application and use that print job to determine the print quality. If you find print-quality problems, refer to the Troubleshooting chapter in this User's Guide.

The self test printout also gives you information such as rear-panel switch settings, amount of memory in the printer, font cartridges installed, firmware version, type of interface card installed, and any printer error messages.

Connect the interface cable

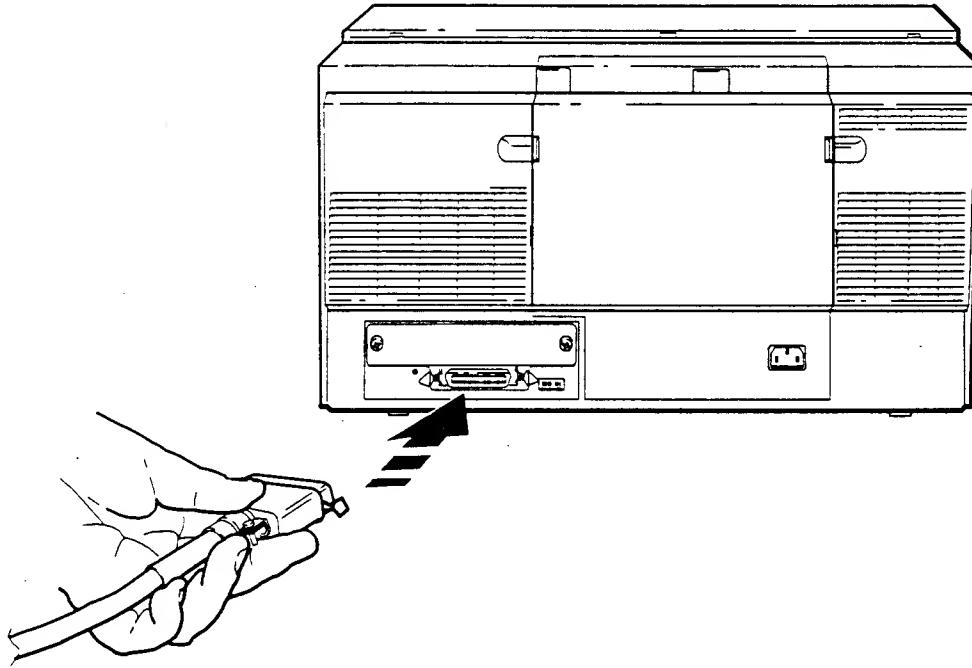
For PC users connecting to Centronics

CAUTION

Many computer systems will have both Centronics and RS-232-C ports. These ports frequently appear identical. Make sure you plug your cable into the Centronics port (it should be labeled), or damage could occur to your printer.

- 1 Turn the printer and computer off.
- 2 *On the computer*; connect the end of the Centronics cable that has screws to the computer's Centronics port and tighten the screws.
- 3 Connect the other end of the cable to the printer's Centronics port.
- 4 Latch the clips into place.
- 5 Turn the printer and computer on.

In some cases, you may need to install a Centronics (parallel) interface card in the computer.



For PostScript Macintosh users with LocalTalk interface

To connect your printer to a Macintosh computer using LocalTalk, you must install a HP JetDirect LocalTalk card into your printer. Refer to the documentation that comes with the HP JetDirect kit to install the interface card. The following procedure assumes that a JetDirect card has been installed into the printer.

Connecting directly to your Macintosh

- 1 Turn the printer and computer off.
- 2 Plug one end of a DIN-8 cable (HP part number 92215S) into the printer port on your Macintosh.
- 3 Plug the other end of the cable into the LocalTalk card on the back of the printer.
- 4 Set the Language switches on the back of the printer to PostScript.
- 5 Set the Context On/Context Off switch on the the back of the printer to Off.
- 6 Turn the printer and Macintosh computer on.

Connecting to a network

- 1 Turn the printer and computer off.
- 2 Plug a LocalTalk connector box (from a LocalTalk connector kit, HP part number 92215N) firmly into the interface port on the JetDirect card.
- 3 Plug a second LocalTalk connector box into the printer port on the back of the Macintosh.
- 4 Plug one end of the interface cable into the LocalTalk connector box on the printer, and the other end of the interface cable into the LocalTalk connector box on the computer. If you are using a PhoneNet type LocalTalk connector, ensure that both ends of the network are terminated.
- 5 Set the Language switches on the back of the printer to PostScript.
- 6 Set the Context On/Context Off switch on the the back of the printer to Context On.
- 7 Turn the printer and computer on.



For PostScript Macintosh users with EtherTalk interface

To connect your printer to a Macintosh computer using EtherTalk, you must install a HP JetDirect EtherTalk card into your printer. Refer to the documentation that comes with the HP JetDirect kit to install the interface card. The following procedure assumes that a HP JetDirect card has been installed into the printer. The first set of instructions cover connecting with 10Base-T, the second set covers connecting with BNC.

Connecting with 10Base-T

- 1 Turn the printer and computer off.
- 2 Plug a LocalTalk connector box firmly into the interface port on the back of the Macintosh.
- 3 Plug one end of the interface cable directly into the 10Base-T connector on the JetDirect card.
- 4 Plug the other end of the interface cable directly into the LocalTalk connector box.

When connecting to a network, plug the computer end of the interface cable to the hub designated for your printer.

- 5 Set the Language switches on the printer's rear panel to PostScript.
- 6 Turn the printer and computer on.

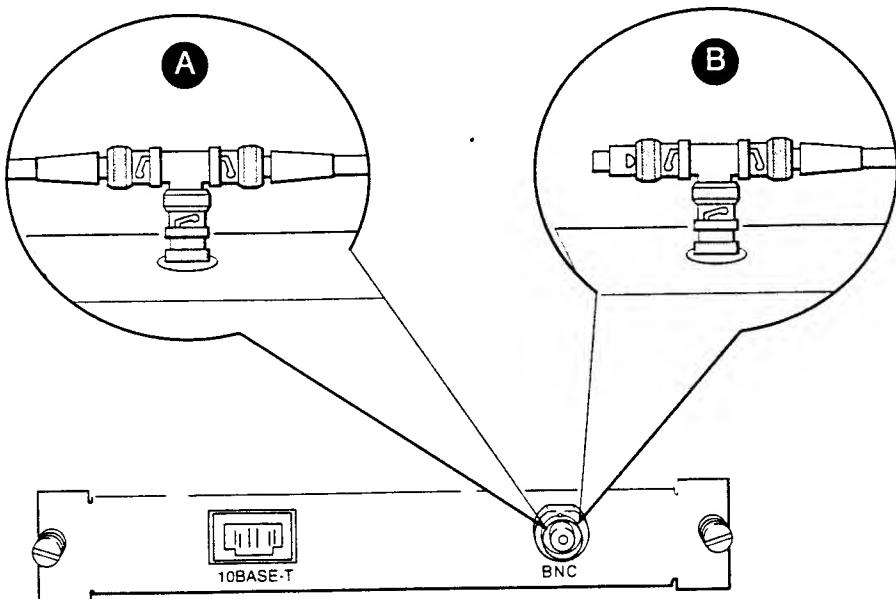


Getting started

Connecting the interface cable

Connecting with BNC

- 1 Turn the printer and computer off.
- 2 Attach one end of your ThinLAN (Thin Ethernet) cable to one side of the BNC "T" connector.
- 3 Attach another ThinLAN cable section or a 50-Ohm terminator to the other side of the BNC "T" connector. If you are attaching the HP DeskJet 1200C printer in the middle of your network, you must use another ThinLAN cable section as shown in **A** below. If you are attaching the printer to the end of your network, you must use a 50-Ohm terminator as shown in **B** below.



- 4 Attach the BNC "T" connector to the adapter card's BNC port. If the cables and "T" connector described in steps 1 and 2 are already installed on your network cable, attaching the BNC "T" connector to the adapter card's BNC port will not disrupt your network's operation.
- 5 Place an insulating cover (such as HP part number 1252-1650) over the connection. The insulating cover protects the adapter card from electrostatic damage.
- 6 Set the Language switches on the printer's rear panel to PostScript.
- 7 Turn the printer and computer on.

What's next?

Installing your printer driver

After you have set up your printer and connected it to your computer, the next step is to install your printer driver. The *Installation and help guide* for the printer drivers are packaged with your driver disks.

Using the rest of this guide

Refer to the following chapters in this guide for more detailed information concerning the use of your printer including:

- Chapter 2 — Printer features
- Chapter 3 — Using your printer (controls, switches, and indicators)
- Chapter 4 — What you need to know about media and print cartridges
- Chapter 5 — Troubleshooting printer problems
- Chapter 6 — Adding options to expand your printer performance
- Technical Information — Includes product regulations and specifications
- Ordering Information — For ordering printer accessories

Your printer's features

Printer features

The HP DeskJet 1200C printer produces high quality, black and white (600 by 300 dpi) and color (300 dpi) output on a variety of media types.

Other features include:

- Networking capability for easily shared, cost effective color.
- Multi-platform printing; I/O switching between Centronics and optional direct network interface.
- Resolution Enhancement Technology.
- LaserJet compatibility, including typefaces, memory, and optional JetDirect network interface.
- PCL5C printer language.
- True AdobeTM PostScriptTM Level 2 as an accessory upgrade or as a fully configured product.
- HP-GL/2 technical and palette extensions allow use of HP-GL/2 drivers for CAD applications.
- Environment drivers for Microsoft Windows provide Truetype and ATM support, color matching to the screen, and Pantone[®] color matching (when using an application that is Pantone certified with a Pantone color).

The printer connects quickly and easily to your computer, and provides you with high-quality text and graphics printing. You can produce full page color charts and graphs for your reports and create complete transparency presentations in vivid color.

Network capabilities

The HP DeskJet 1200C Color Printer supports the following protocols using HP JetDirect peripheral interface cards:

- Novell NetWare (Ethernet or Token Ring)
- Microsoft LAN Manager
- Windows for Workgroups
- TCP-IP (HP-UX, SunOS, and SCO UNIX)
- AppleTalk
- HP-IB

The HP JetDirect peripheral interface cards are:

- Ethernet (10Base-T connector)
- Ethernet (10Base-T connector plus BNC)
- Token Ring (DB9 connector)
- LocalTalk
- HP-IB

Multi-platform printing

Multi-platform printing is available with the addition of a HP JetDirect card. The DeskJet 1200C printer uses I/O auto-sensing which allows you to connect computers with different interfaces to your printer simultaneously. The printer recognizes which interface the data is coming from and processes it properly.

Auto-sensing will recognize when you have any HP JetDirect card installed in the printer and will automatically switch to that I/O port if a file on that port is received.

If a person printing on one interface cancels a print job (or it is otherwise "abnormally terminated" such as by a power failure), the printer will wait 5 minutes before accepting data from another interface.

Resolution Enhancement

The HP DeskJet 1200C (standard version) and HP DeskJet 1200C/PS (PostScript version) printers use Resolution Enhancement Technology (RET) in black areas of your printed output in the High Quality mode. RET smooths the edges on text for sharper looking text.

Typefaces

The standard HP DeskJet 1200C contains 35 Intellifont and 10 TrueType typefaces. If you have PostScript installed in the printer, you can access 35 Adobe typefaces. All of these internal typefaces are scalable.

It is not possible to access Intellifont or TrueType typefaces from PostScript, nor can you access Adobe typefaces from PCL.

A cartridge slot, located in the front lower-right corner of the printer, will accept LaserJet-compatible typeface cartridges. These cartridges can contain bit-mapped, scalable, or custom typefaces.

You can obtain a list of typefaces of the default language resident in the printer's memory.

- 1 Press and hold the **Shift** button.
- 2 Press the **Print Fonts** button.
- 3 Release both buttons.

The HP DeskJet 1200C User's Reference also has a list of typefaces resident in the printer's memory. If you do not have a User's Reference, you can obtain one by removing the User's Reference request card in the front of this manual and mailing it to the address shown.

HP font utilities

Hewlett-Packard offers an extensive library of bitmap and scalable fonts in downloadable LaserJet format. Personal computer software like HP Type Director and Intellifont for Windows is available for creating powerful printed documents and scalable typefaces on your screen.

Printer memory

Your HP DeskJet 1200C printer contains 2 megabytes of resident memory (4 megabytes in the PostScript version). You can install additional memory in the printer (full capacity of the printer is 26 megabytes). Printer memory can be expanded in blocks of 1, 2, 4, or 8 megabytes (refer to the "Ordering Information" chapter in this manual).

Adding more memory lets you:

- Print larger files.
- Create more complex graphics.
- Free up your computer to do other jobs.
- Download more disk-based typefaces.

Refer to chapter 6, "Installing printer options" in this manual, if you wish to add more memory to your printer.

The resident memory is enough to print a full Letter- or A4-size sheet of 300 dpi, color graphics from most applications. More complex applications, such as COREL *DRAW!* and Micrografx, may require additional memory.

If your file is too large or complex to print, the printer will print only the amount of the file within the resident memory. The printer will also print "Not Enough Printer Memory — See User's Guide" at the bottom of the page if you are using PCL as a default language. If you are using PostScript as the default language, the printer will print "Error: LimitCheck".

Printer Languages

HP PJL

The DeskJet 1200C uses Printer Job Language (PJL) to switch to the appropriate language (PCL5C, PostScript, or HP-GL/2) prior to starting a print job.

HP PCL5C

Your printer uses Printer Control Language (PCL5C) to set up your printed image and convey all associated data for output.

Adobe PostScript

The DeskJet 1200C/PS (C1686A) can print PostScript files. The DeskJet 1200C (C1676A) can be upgraded to print PostScript files by installing the PostScript Upgrade kit (part number C2865A).

For Macintosh users, a HP JetDirect interface card must also be installed. Refer to the *Ordering information* section of this User's Guide for the HP JetDirect card you need for your system.

HP-GL/2

Your printer can print plotter files that use HP-GL/2 graphics language.

Controlling your printer

The preferred method to control your printer is through software, such as a word processing package or an environment, such as the Macintosh or Windows. If your software does not contain printer drivers that let you control the HP DeskJet 1200C, you may be able to place printer commands directly in your file. The User's Reference contains a list of printer commands for the HP DeskJet 1200C.

In addition, if you are unable to control your printer using software or embedded printer commands, you can use the printer control panel to perform tasks such as selecting the print mode.

Important

Remember, software settings always override control-panel settings. In other words, if you are using Windows, a DOS application with a printer driver, or a Macintosh, do not use the control panel to select a print mode because it will be overridden by your software.

Using a shared printer

The HP DeskJet 1200C printer can be shared using a switch box or a LAN along with the appropriate HP JetDirect card. When you use your printer in a shared environment, be aware of these considerations:

- Any rear-panel or control-panel changes may affect everyone else's print jobs. Check with your network administrator before making any rear-panel or control-panel changes.
- Coordinate the use of default fonts and downloaded disk-based typefaces with other users. This will save printer memory and help avoid unexpected printer output.
- Be aware that switching the system language affects other printer users and that if you switch between PCL5 and PostScript operation, your printer will erase all downloaded disk-based typefaces and macros.

Your network operating system may automatically protect each user's print jobs from the effects of other users in the system. Check with your network printer administrator.

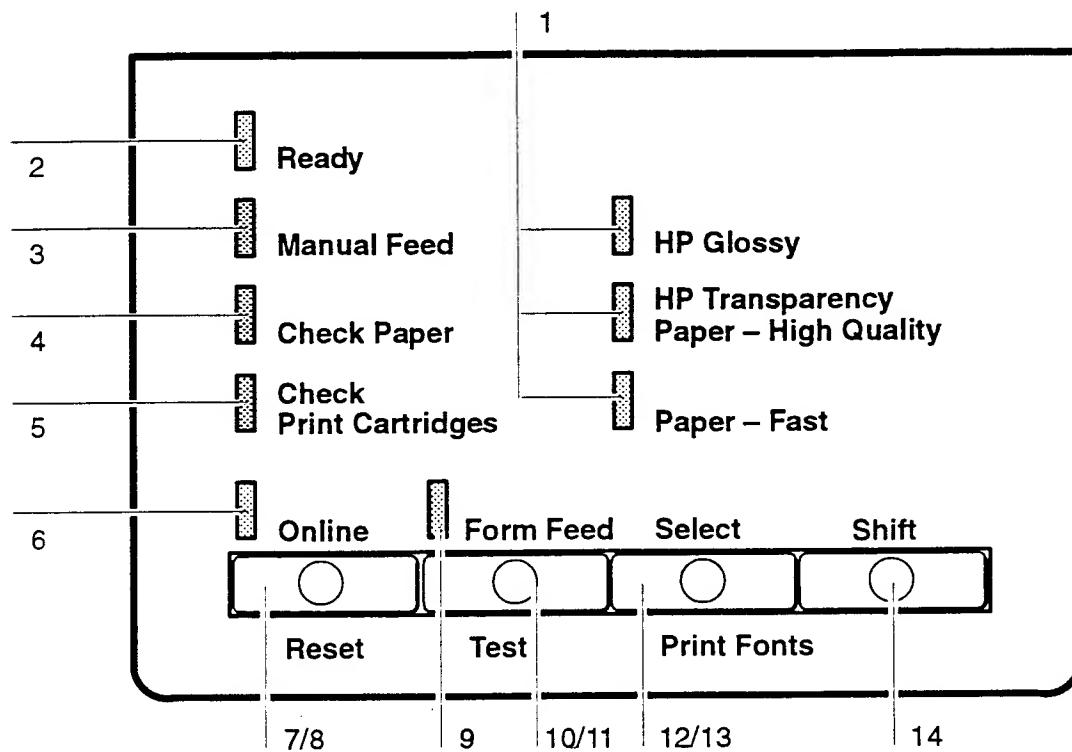


Using your printer

Using the control panel

The control-panel buttons are used for printer operations that are not controlled by software. Any software setting that can control the printer will override the control-panel settings.

Each function and light is numbered below and explained in the following pages.



In order to perform functions shown in red, you must press and hold the **Shift** button while pressing the function you want (Reset, Test, or Print Fonts), then release both.

1: Print mode lights

The default print mode is "Paper – Normal." In this mode none of the three print mode lights are lit.

Important

Use the print mode lights and **Select** button only if your software application does not allow you to select the media type and print quality. Software always overrides the control-panel settings. In other words, if you are using Windows, PostScript, Macintosh, or a DOS application that can control the printer, do not use the control panel to select print mode because it will be overridden by your software.

The HP Glossy light will come on when the printer is set to print on glossy paper.

The HP Transparency/Paper – High Quality light indicates that the printer is set to print on transparency film or paper for jobs that require high quality text and graphics. If you have loaded HP Transparencies, the printer will always print using High Quality. When you are using paper, this mode will output the highest quality text and graphics in most cases. However, in a few cases when using scanned images or printouts with high densities of black, you may get better results using the Paper – Normal mode. You may wish to experiment with both print modes to see which produces better quality for your application.

The Paper-Fast light indicates that the printer is set for its fastest print mode for paper.

2: Ready light

The Ready light will be on when the the printer is turned on and initialized. The Ready light will flash when data is being processed, indicating that the printer is busy.

3: Manual Feed light

The Manual Feed light indicates that the printer is ready to manually feed media (when selected through your software application). However, you do not have to use your software application to manually feed media. It will also light whenever you feed media into the printer through the manual feed slot by hand.

Use manual feed (through your software) when printing multiple and/or consecutive pages that you want to load by hand—for example, if you are printing on label stock or envelopes.

4: Check Paper light

The Check Paper light will come on and remain lit when the following occurs:

- The printer is out of paper.
- The printer has a paper jam.
- HP Transparency film has been loaded with the white strip at the wrong end causing a paper jam.

If you have not turned off the printer while removing a paper jam, close the top cover and bring the printer online to continue printing.

5: Check Print Cartridges light

The Check Print Cartridges light will come on when one or more print cartridges is not seated properly (not snapped forward in place or tape was not removed) or has an electrical connection problem. This condition is checked when the printer is turned on and when the top cover is raised.

6: Online light

The **Online** light is lit when the printer is able to communicate with the computer. When not lit, functions on the control panel can be performed. The self test can be printed while the **Online** light is lit.

7: Online button

The **Online** button allows the printer to communicate with the computer. Pressing the **Online** button turns the **Online** light on (online) or off (offline).

If you have taken the printer offline to clear a paper jam, bringing the printer back online will tell the printer to try printing again.

8: Reset button

Use the **Reset** button to clear all data from the printer's memory.

To reset the printer (printer must be offline), hold down the **Shift** button, press the **Reset** button, then release both.

9: Form Feed light

The Form Feed light will come on when you use the **Form Feed** button.

10: Form Feed button

The printer must be offline to use the **Form Feed** button. If the printer is online (Online light is on), push the **Online** button and the Online light will go off.

Press the **Form Feed** button to eject paper that is loaded in the printer.

11: Test button

Use the **Test** button to print a self-test sheet.

To print a self-test sheet, hold down the **Shift** button, press the **Test** button, then release both.

12: Select button (DOS only)

Important

Use the **Select** button only if your software does not allow you to select media and quality. Software always overrides the control-panel settings. In other words, if you are using Windows, PostScript, Macintosh, or a DOS application that can control the printer, do not use the control panel to select print mode because it will be overridden by your software.

Use the **Select** button to choose the proper print mode for the type of media you are using (printer must be offline). Pressing the **Select** button will put the printer into a print mode corresponding to the green light located beside one of the print modes shown on the control panel (HP Glossy, HP Transparency/Paper — High Quality, and Paper — Fast) or into Paper — Normal mode (default) if no light is lit.

13: Print Fonts button

Use the **Print Fonts** button to print a list of fonts contained in the printer's memory and any installed font cartridges. To print a list of fonts, make sure the printer is offline; hold down the **Shift** button, press the **Print Fonts** button, then release both.

14: Shift button

The **Shift** button allows you to:

- Reset the printer. While holding down the **Shift** button, press the **Reset** button.
- Print a self-test sheet. While holding down the **Shift** button, press the **Test** button.
- Print a fonts-list sheet. While holding down the **Shift** button, press the **Print Fonts** button.

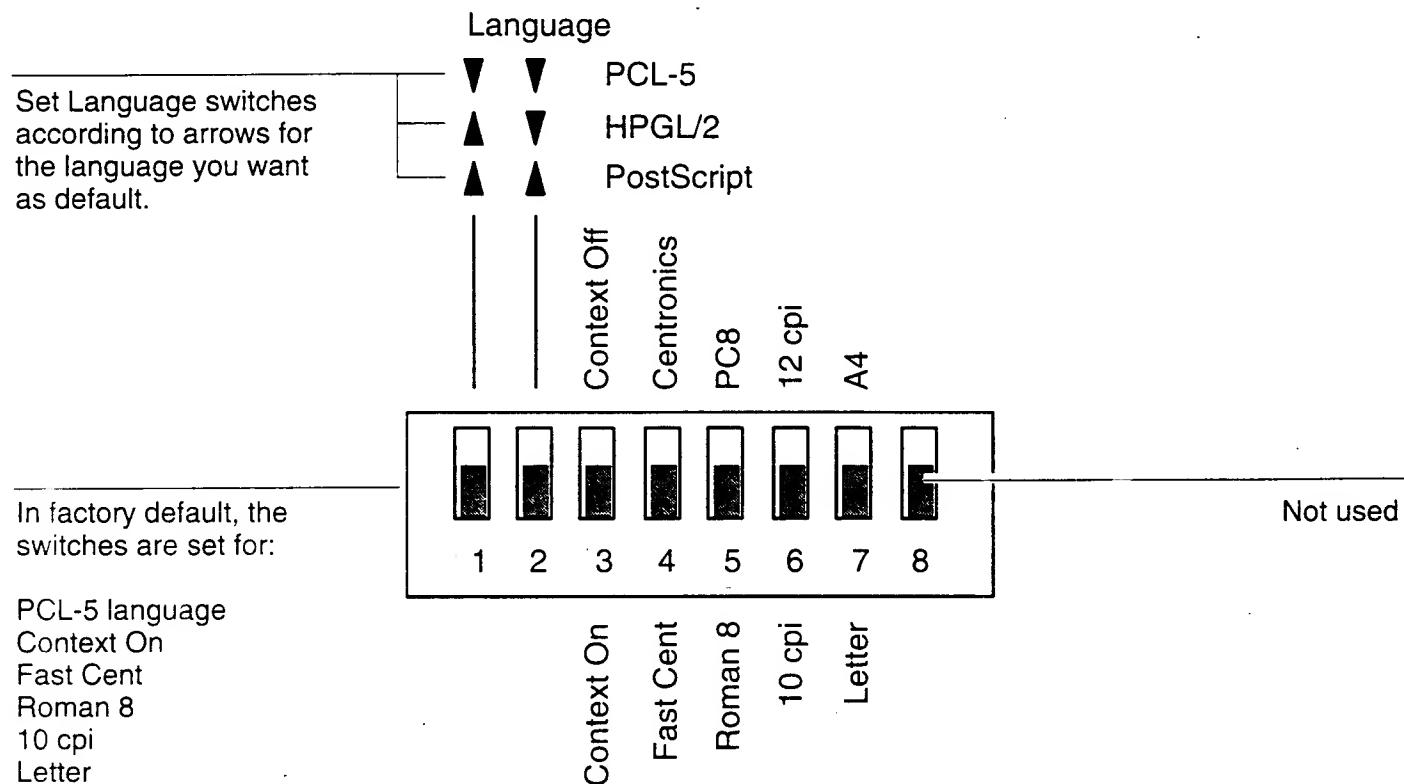
Using the rear-panel switches

Use the rear-panel switches (also called DIP switches) to configure your printer for a feature that your software may not have. They take effect only after the printer is turned off, then back on, using the **On/Off** button or if you reset the printer from the printer's control panel. Each of the switches is explained in the remainder of this chapter.

Important

Software settings will override the printer's rear-panel switches.

All the switch settings shown below are in the factory default (down) position.



Selecting a printer language

The HP DeskJet 1200C supports three printer languages that control the basic operations of the printer:

- HP PCL5, the native (default) language.
- Adobe PostScript (valid only if PostScript option is installed).
- HP-GL/2, which allows for 'plotting' from CAD packages.

Two rear-panel switches allow you to control switching between PCL 5, HP-GL/2, and PostScript printer languages. They take effect only after the printer is turned off, then back on, using the **On/Off** button or if you reset the printer from the printer's control panel.

The rear-panel switches determine the default language in which the printer expects to receive instructions from your computer. However, the drivers supplied with your printer contain switching commands that override the rear-panel switch settings.

If your PostScript and HP-GL/2 drivers contain language switching commands, you should leave the printer set to PCL5 and the printer will automatically switch to the language you are using. Older drivers do not contain these commands so you must select the language at the rear panel.

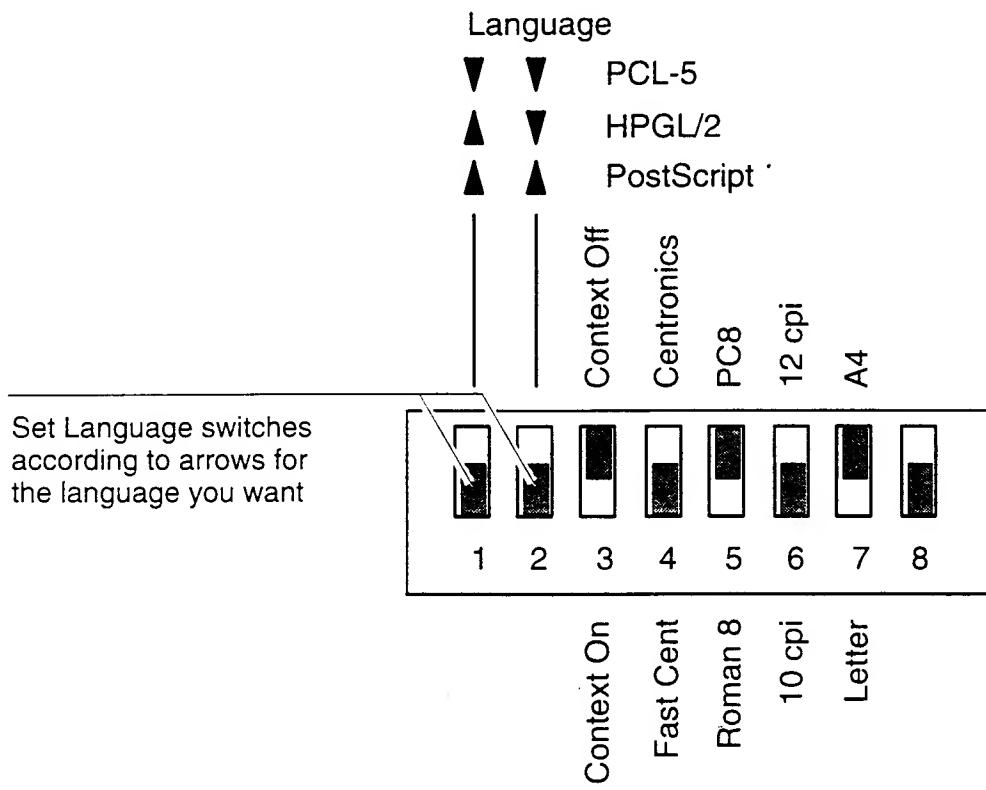
The HP-GL/2 option should be selected only for older software that does not contain commands to switch the printer into HP-GL/2 mode. If you have access to an initialization string for HP-GL/2, you can activate HP-GL/2 by sending **Esc%-1B**. If you do this, then you do not need to set the Language switch on the rear panel to the HP-GL/2 setting.

If your software drivers do not contain switching commands and your printer's rear-panel switch settings are not set correctly, printing errors may result.

System language switching causes a complete change to the way your printer interprets and processes data. When your printer is connected to a network, language switching should be implemented and controlled only by the network administrator.

The current system language can be changed by your software application or by another user if you are on a network or other shared printer environment.

The illustration below shows PCL5 language selected.

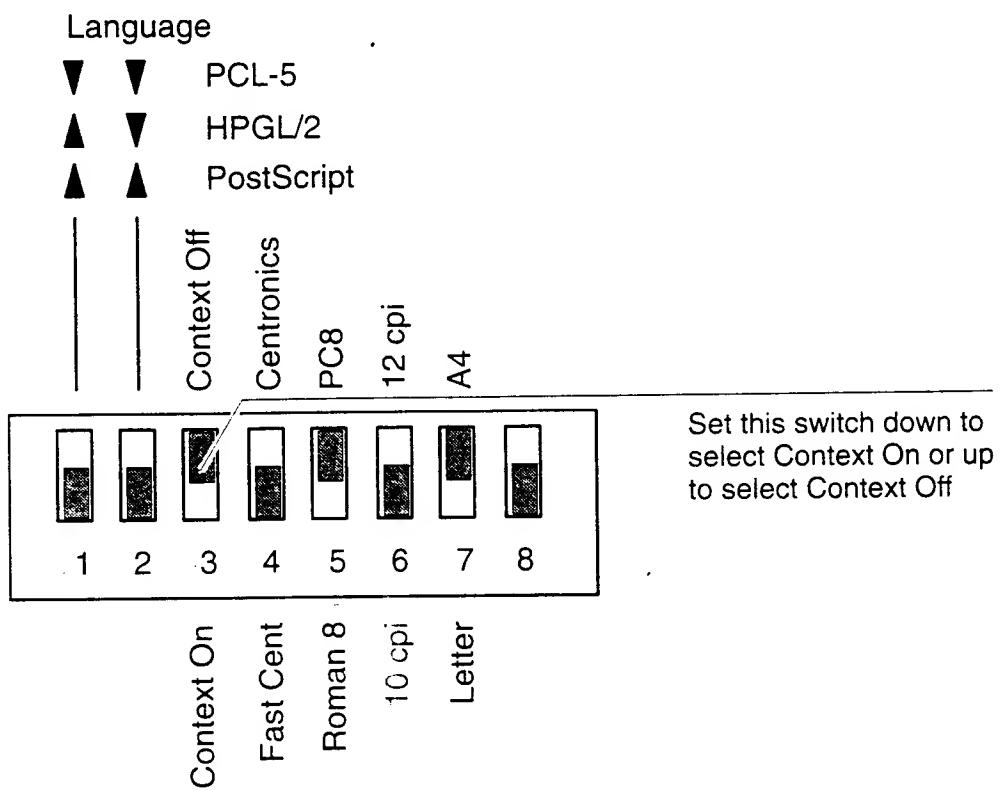


Selecting Context

If the Context On/Context Off switch is set to Context On, the printer will determine which language (PCL5, HP-GL/2, or PostScript) it is receiving. However, the printer may not be able to read older versions of PostScript.

If you are using PostScript and the printer does not automatically switch to PostScript language, your printed output will be garbled or incorrect. Turn the printer off, set the Context On/Context Off switch to Context Off, set the Language switches for PostScript, then turn the printer back on.

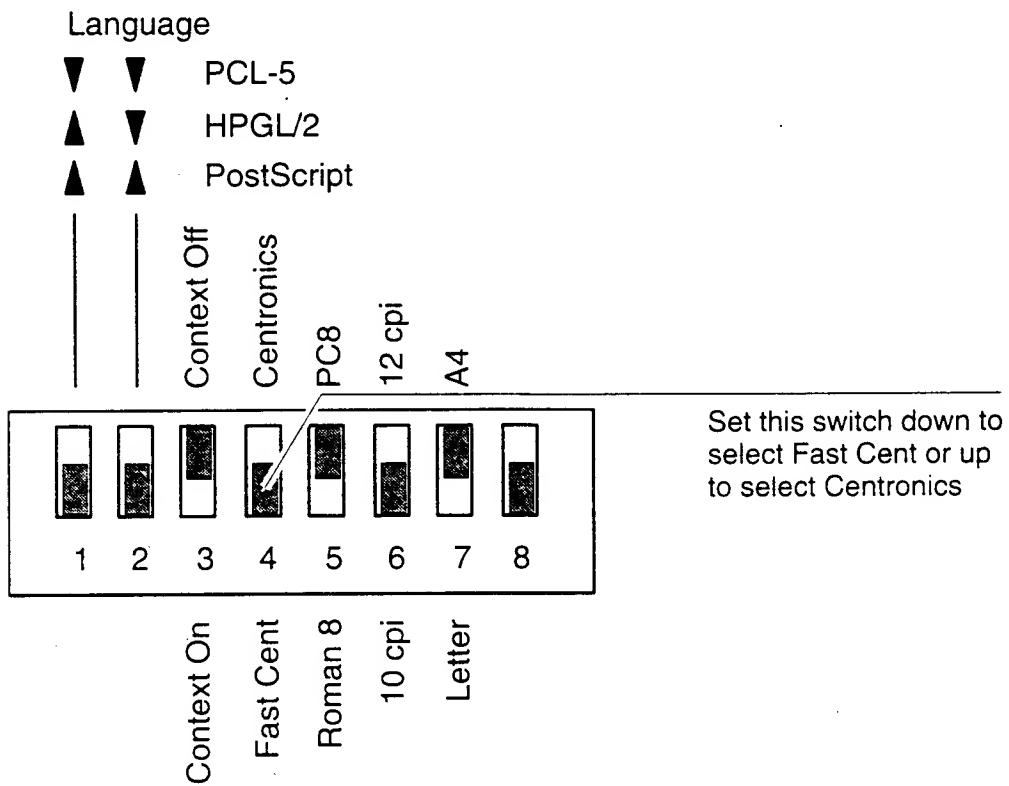
The illustration below shows the switch set to Context Off.



Selecting Centronics or Fast Centronics

Fast Centronics (shown as "Fast Cent" on the switch label) is the default setting of this switch. Fast Centronics is the faster circuitry used by newer computers. Older computers use slower Centronics. If you are using a computer that has slower Centronics, it may not recognize the printer I/O port when the rear-panel switch is set to "Fast Cent." The computer might display a "port not recognized" message or hang up. In this case, set the rear-panel switch to "Centronics."

The illustration below shows the switch set for Fast Centronics.



Selecting a default symbol set

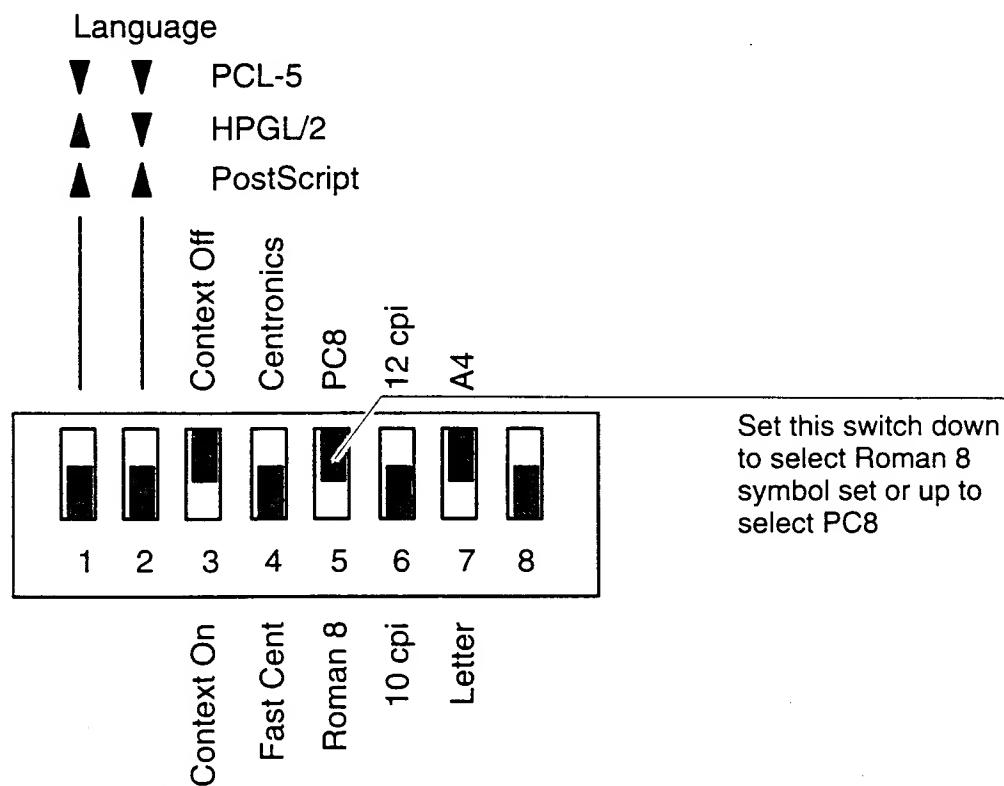
For PCs, regardless of the interface or language you will be using, you must select either the Roman8 or PC8 symbol set (unless overridden by software) to be the default set for your printer.

The Roman8 symbol set (factory default setting) includes the standard US ASCII set and the Roman Extensions, an 8-bit set of European characters and special symbols.

In the PC8 set, decimal codes 1–32 can have special printing characters if software graphically generates them or a transparent print data command is sent to the printer. Decimal codes 33–127 are the standard U.S. ASCII set. Decimal values 128–255 are 8-bit sets containing some European symbols and graphic symbols for mathematics and line drawing. It can be used with printing characters available on IBM personal computers, or when running software packages that support the PC8 set.

Many software packages select a symbol set using PCL 5 commands that override the rear-panel switch settings.

The illustration below shows the PC8 symbol set selected.

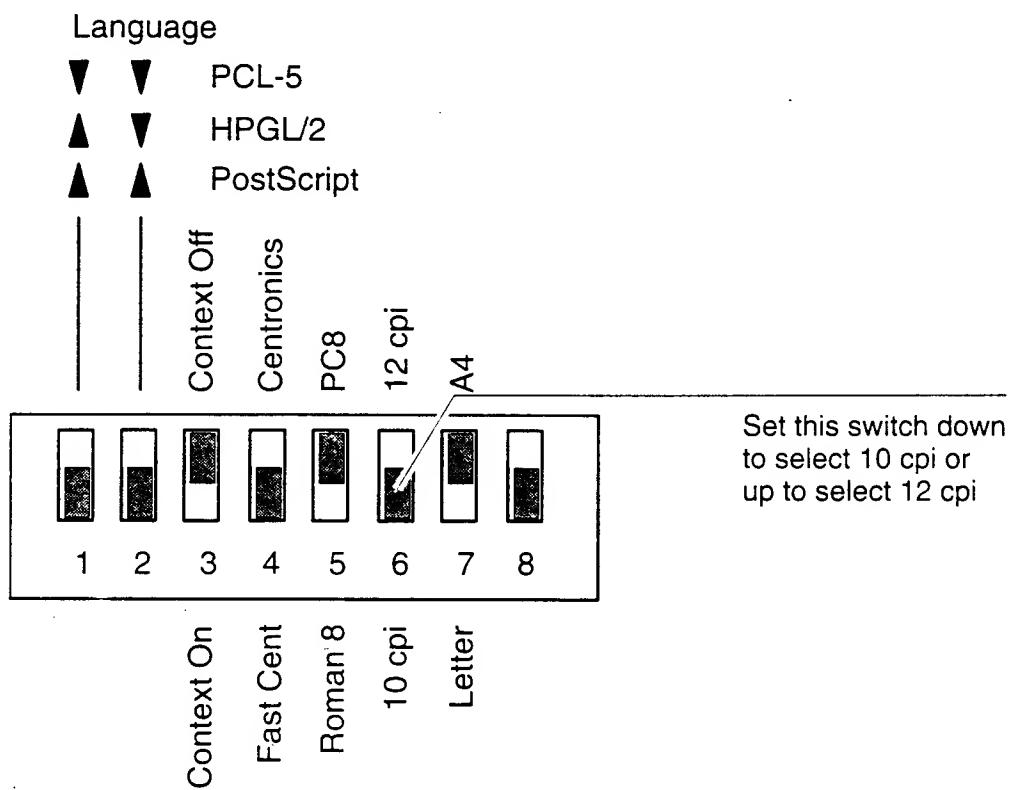


Selecting character spacing

The printer can default at 10 or 12 characters per inch (cpi) using the 10 cpi/12cpi switch on the rear panel.

Normally, text characteristics are controlled by the application. However, if you are using A4-size paper and are printing screens or something similar, you may need to set this switch to 12 cpi since 80 columns of text will not fit on an A4-size page at 10 cpi.

The illustration below shows the switch set to 10 cpi.

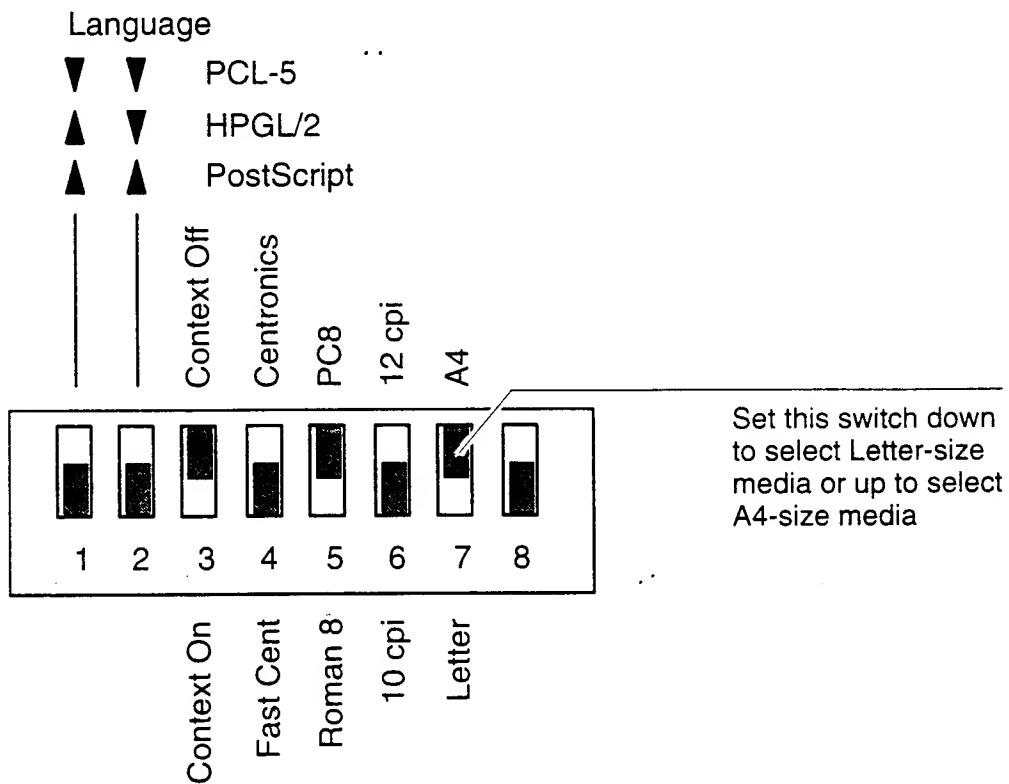


Selecting Letter or A4 media sizes

The printer is designed to use plain paper, glossy paper, or transparency film in the following standard sizes:

- Letter (8.5 by 11 in.)
- Legal (8.5 by 14 in.) — While not selectable from the rear panel, you can select it from your software driver. (Not available for transparency film or glossy).
- A4 (210 by 297 mm)

The illustration below shows the switch set for A4-sized media.



Using media and print cartridges

What you need to know about media

An exciting feature of the HP DeskJet 1200C is its printing versatility — the ability to print on a wide variety of media depending on your needs.

The HP DeskJet 1200C has been designed to print on plain paper such as photocopier or letterhead. CX JetSeries CutSheet paper (also called HP Special paper) can be used to maximize ink brilliance. LX JetSeries transparencies and glossy paper provide the highest print quality for finished presentations. Refer to the "Ordering information" chapter of this manual for media sizes and part numbers.

The HP DeskJet 1200C will print on DeskJet and LaserJet label stock; and C5, DL, and #10 envelopes using the manual-feed slot at the top of the printer.

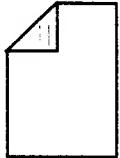
Important

Although plain paper, special paper, glossy paper, and transparencies can be manually loaded into the manual-feed slot for printing, the manual feed mode's print quality will be slightly less than an automatically fed page. Hewlett-Packard recommends you use the manual sheet feed slot only for label stock and envelopes.

Single sheets of media can be added to the top of the media stack in the media tray for better quality output.

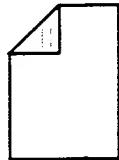
You can load Letter-size, A4-size, and legal-size media for automatic sheet feed in the media tray for unattended printing.

- Load all media types the same way.
- Do not load mixed sizes of media in the media tray. This could cause a media jam.
- Always load media print side down and letterhead first in the media tray. Printing on the correct side will make a *significant* difference in print quality with most media types.
- Ensure that you always have more than one or two sheets loaded in the media tray to avoid possible media jams.



As you select paper for your HP DeskJet 1200C printer, be sure to choose only paper in the 16 to 24 lb (60 to 90 g/m²) range. Colored photocopy, bond, and letterhead paper, or preprinted forms that fall within this range may be used in the printer. Be sure that all paper is free of tears, dust, wrinkles, and curled or bent edges.

Selecting paper



Plain paper has a print side. For the best print quality, print only on the print side of the plain paper. The print side is not visible to the naked eye, so before you remove the paper from a ream to use in your printer, check the label on the end of the ream. The print side will be indicated by an arrow or other symbol on the label. Remove, undisturbed from the ream, the number of sheets of paper you wish to use in your printer, and load them print-side-down into the media tray.

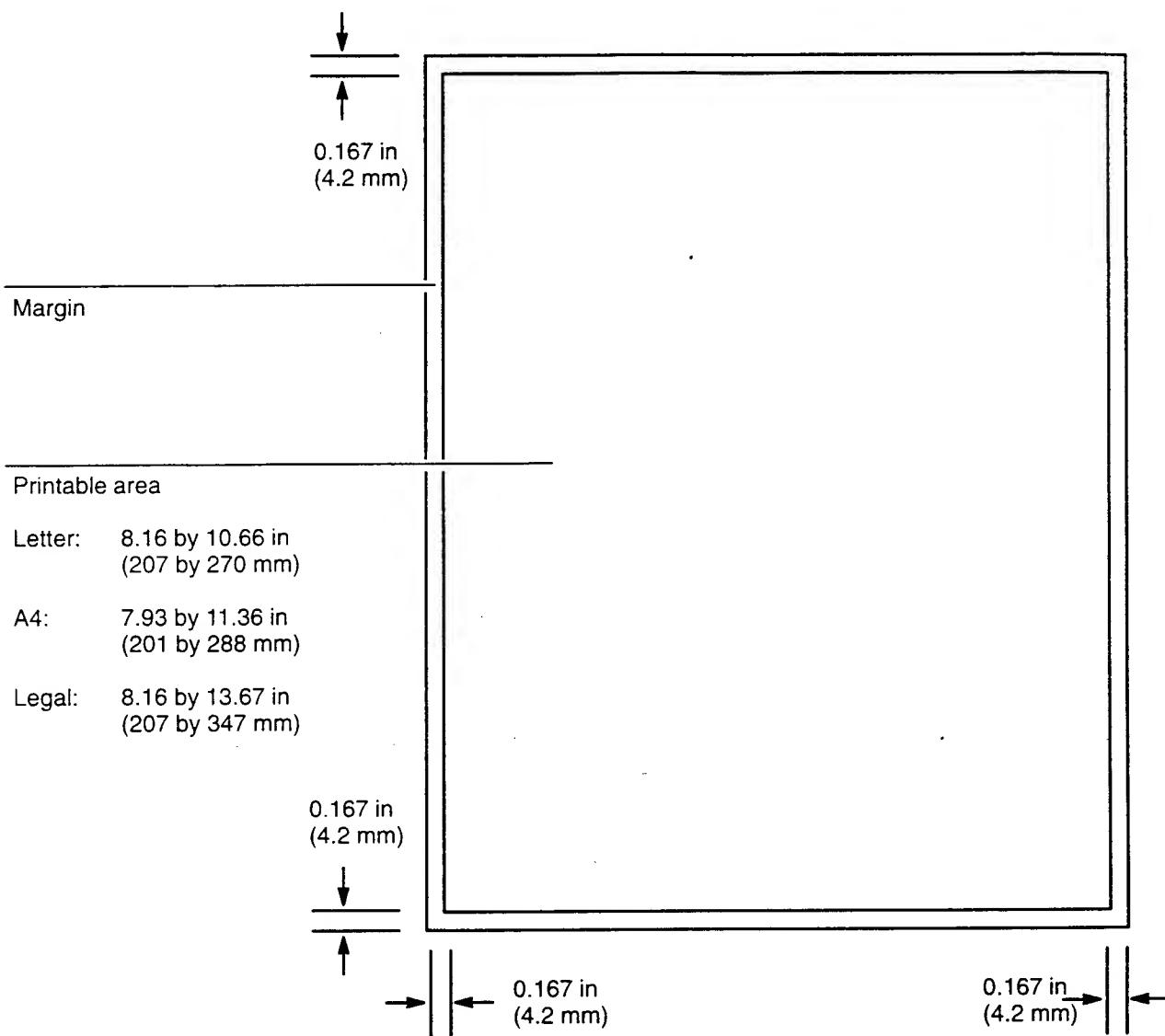
CX JetSeries CutSheet paper (HP Special) has an arrow in the upper right-hand corner of the non-print side of the paper. Place the arrow side up in the media tray.

Handle all media types by the edges only. (The oil from fingerprints interferes with the ink.)

Avoid the following types of media because they cause printer jams or can affect print quality:

- Paper greater than 24 lb (90 g/m²) or less than 16 lb (60 g/m²).
- Inkjet paper other than the recommended type.
- Paper with cutouts or perforations.
- Transparency film other than the recommended type.
- Multiple part forms.
- Paper sizes in the media tray other than the paper sizes listed in the “Technical information” chapter of this manual.
- Envelope sizes other than those recommended in this manual.

The maximum printable area for your HP DeskJet 1200C printer is shown below. Most software application packages allow you to specify where printing will occur on the page by setting margins or column widths. As you set margins or columns through your software package, be sure to keep them within the printer's printable area. Refer to the "Technical information" chapter for other media information.



Printing on glossy paper

Always select HP Glossy mode before printing on glossy paper. Selecting HP Glossy mode tells the printer to make multiple printing passes that will produce the intensity of ink needed for vibrant images. You may wish to experiment first with area fills (solidly colored areas) to produce optimum results (ink bleeding may occur with area fills that are too dense). If available, select the media type using your software. Otherwise, use the control-panel **Select** button. Selecting the proper media type lets the printer create the best quality output.

Remember, software settings will override the control-panel **Select** button. Be sure to load the glossy side down in the media tray when printing.

Important

If the printer has only one or two sheets in the media tray, the printer may not pick the media properly, causing a media jam in the printer. Be sure to have at least several sheets installed in the media tray. If you only have one or two sheets of glossy paper, you can place the sheets on top of a plain paper stack and then load the stack in the media tray.

Printing on transparencies

Always select HP Transparency/Paper — High Quality mode before printing on transparency film.

Important

Use only LX JetSeries Transparency Film (HP 51636F letter-size or HP 51636G A4-size) when printing with transparencies. Using any other transparency film will cause the transparency film to jam in the printer.

A *maximum* of 100 transparencies can be loaded into the media tray, printed, and stacked at a time.

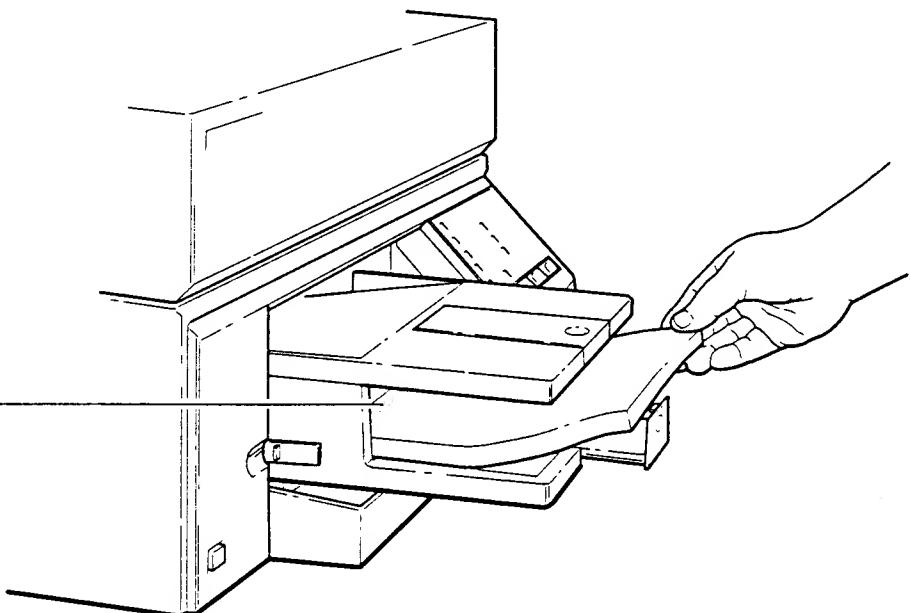


Loading transparencies

LX JetSeries Transparency Film has a white strip at the top of each sheet. This strip is used by the optical sensors in the printer to determine if there is transparency film loaded.

When loading transparency film into the media tray, insert the film with the white strip facing up and positioned forward so that it is the first part of the film that goes into the printer.

White strip
facing up



Remember to close the top cover before starting any print job.



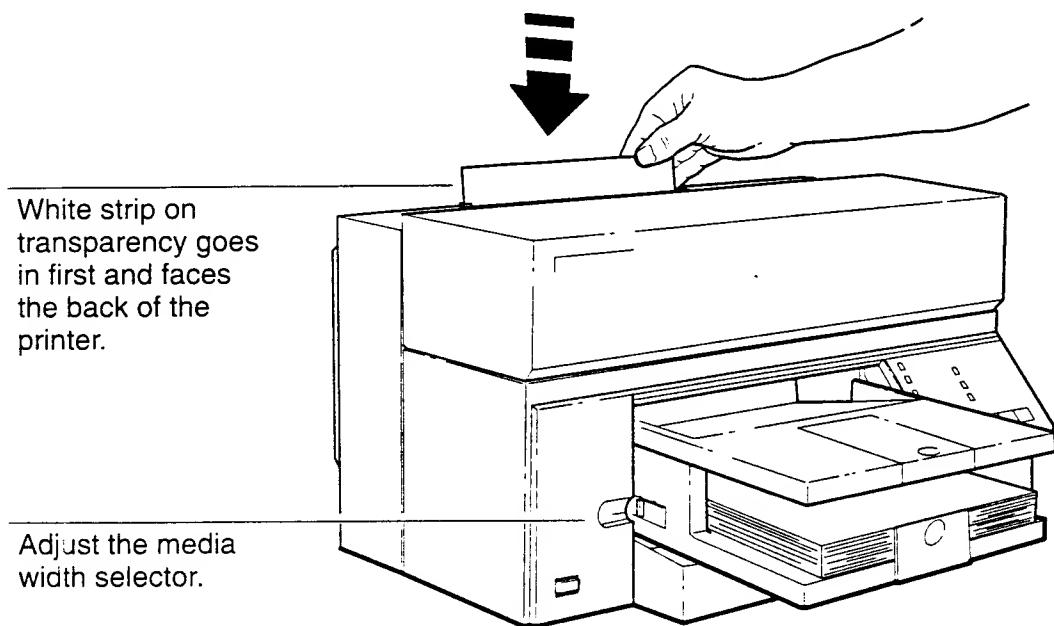
Using media and print cartridges

Transparencies

When loading transparency film singly into the manual feed slot, insert the film with the white strip on the bottom and facing the back of the printer.

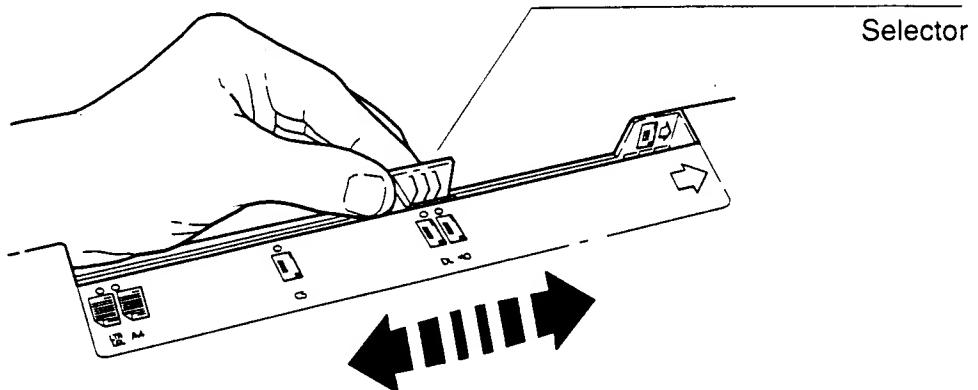
Important

You must also adjust the media width selector on the front of the printer for the width of the media you are manually loading. The wrong media width setting could result in a media jam.

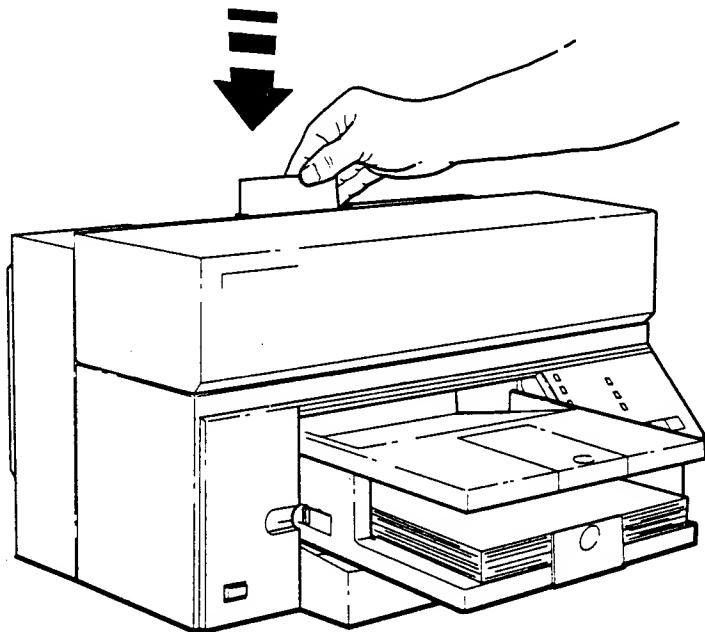


Loading envelopes or label stock

- 1 Adjust the envelope/media size selector at the top of the printer for item you want to load.



- 2 For envelopes, insert the envelope (stamp corner is lower right facing the front of the printer) into the manual-feed slot at the top of the printer until the printer physically grabs it and the Manual Feed light goes off.



Using media and print cartridges
Loading envelopes or label stock

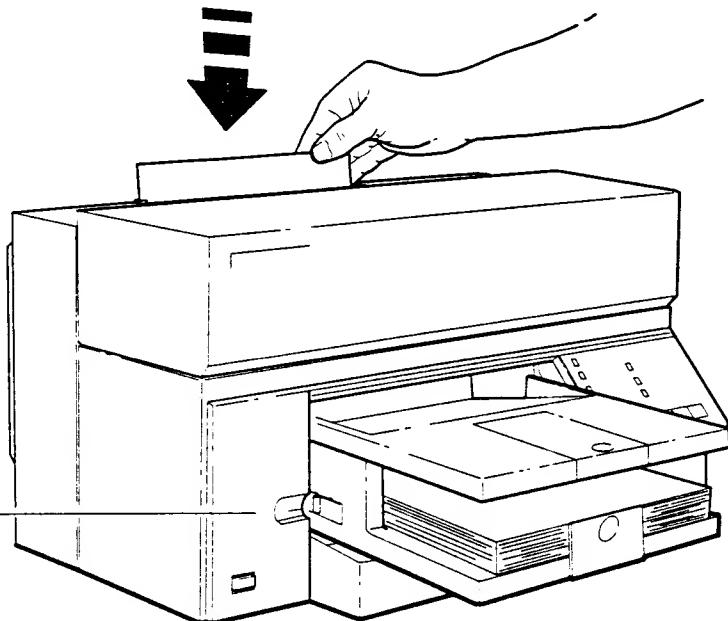


- 3 For label stock, adjust the envelope/media size selector and then insert the sheet with the print side facing the front of the printer into the envelope/media slot at the top of the printer.

Important

You must also adjust the media width selector on the front of the printer for the width of the media you are manually loading. The wrong media width setting could result in a media jam.

Adjust the media width selector.



What you need to know about print cartridges

Your printer operates with four print cartridges: yellow, magenta, cyan, and black. Except when printing the self test, all four cartridges must be installed before you can print.

When printing *text only* on Letter/A4-size media, ink lasts about 900 pages.

When printing *graphics* on Letter/A4-size media, using equivalent amounts of each color, ink lasts approximately:

- 1850 pages per set of color cartridges at 15% density
- 275 pages per set of color cartridges at 100% density
(screen dumps, bit-mapped graphics)

If you use one color more than others, you will need to change that print cartridge more often.

If a print cartridge is new or has been installed and not used for a long time, run the self test first before starting your print job.

Remember, each print cartridge must be snapped fully down and forward into the stall.

Determining ink color (users with color-vision deficiencies)

The printer uses four print cartridges. The colors, as installed from left to right, are yellow, magenta, cyan, and black. Each cartridge has a part number that uses a letter designation for the color of the ink. This part number is located on the front label of the print cartridge (shown on the next page).

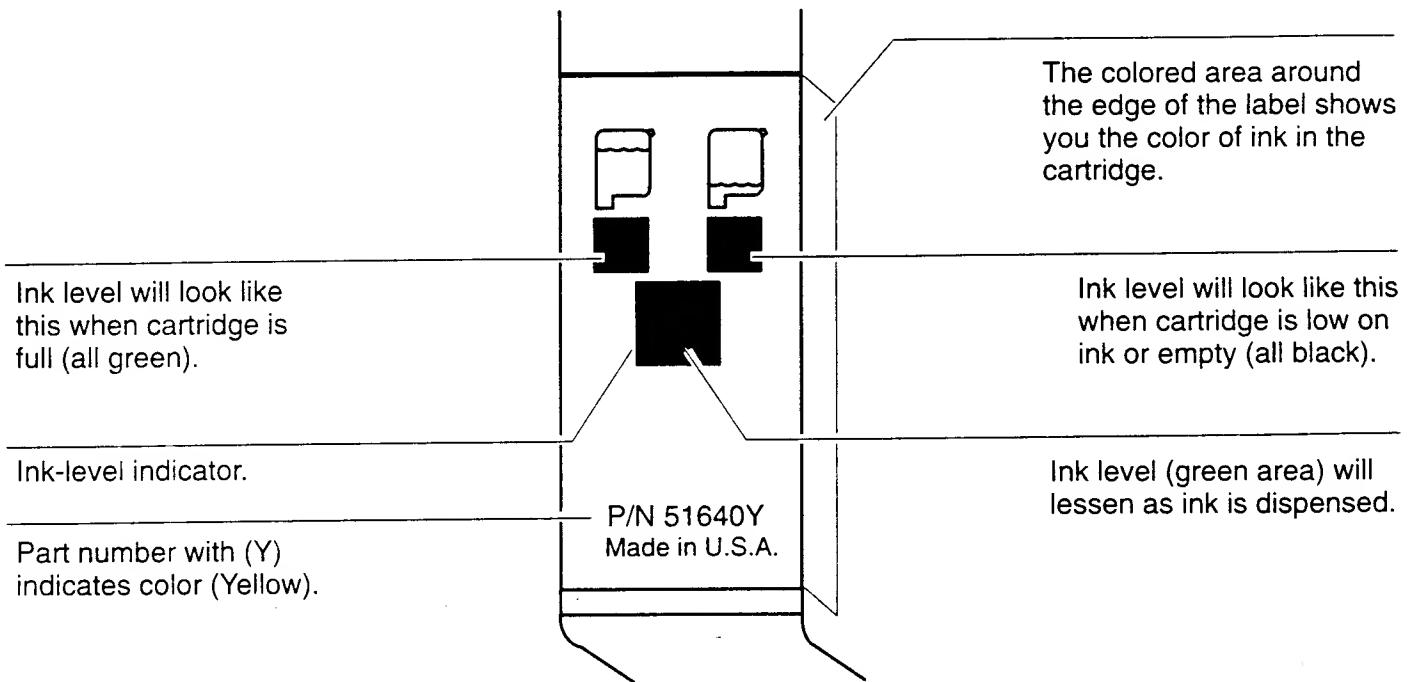
1st Cartridge	2nd Cartridge	3rd Cartridge	4th Cartridge
Yellow	Magenta	Cyan	Black
51640Y	51640M	51640C	51640A

Ink-level indicator

Each cartridge contains 44 cubic centimeters of ink. You can check the amount of ink in each cartridge by looking at the ink-level indicator.

As ink is dispensed from the cartridge, the green area in the ink-level indicator (all green when full) will lessen and you will see more black area.

The ink-level indicator is only an approximation of the amount of ink left in the cartridge. The illustration below shows the label on the front of a cartridge containing yellow ink.



Troubleshooting

Checklist for printer problems

Check the following items *if your printer will not print.*

- The top cover is closed.
- Tape is removed from the print cartridges.
- All four print cartridges are properly installed (are snapped fully forward). If you are printing a self test and the print cartridges are not snapped fully forward, the cartridge carriage will move and cause the print cartridges to jam against the inside of the printer.
- Media is loaded fully forward in the input (lower) tray.
- A sheet of media or an envelope is fully inserted when manually loading media.
- The interface cable is properly connected and the printer is online.

If the printer still does not print, use the table in the following pages to troubleshoot your problem.

Check the following items *if your printer has a paper jam.*

- The top cover is closed.
- The media-width selector is set for the media width you are using.
- The proper size media is being used.
- Media is loaded fully forward in the media tray.

If the printer still indicates a paper jam, use the table in the following pages to troubleshoot your problem.

Troubleshooting your printer

Printer Indications	Possible Problems	Solution
Printer does not initialize. Printer on but nothing prints. (CHECK PRINT CARTRIDGES light is on.) (CHECK PAPER light is on.)	<p>One or more print cartridges not fully inserted into the stall or tape is not removed.</p> <p>Media tray is out of paper.</p> <p>Media is jammed in printer.</p> <p>HP Transparency media was loaded with the wrong end going in first, causing a media jam.</p> <p>If the printer has only one or two sheets of media in the media tray, the printer may not pick the media properly, causing a media jam in the printer.</p> <p>Printer is offline.</p>	<p>Re-install print cartridges using the "Load the print cartridges" procedure in chapter 1.</p> <p>Load media into media tray using the procedure in chapter 1.</p> <p>Remove the jammed media from the printer using the "Jammed media" procedure in this chapter.</p> <p>Load HP Transparency media in the input tray with the white strip going in first and facing up. When loading manually in the manual feed slot, the white strip on the bottom and facing the back of the printer.</p> <p>Remove the media jam and install more media in the media tray.</p> <p>Bring the printer online.</p>
Ink tends to bleed on the media or the print seems fuzzy. The media has excessive cockling (wrinkled).	<p>You may be using the wrong media.</p> <p>You may be printing on the wrong side of the media.</p> <p>You may not be printing within the specified environmental conditions.</p>	<p>Use media that is supported and recommended by Hewlett-Packard.</p> <p>Verify you have loaded media with print side down in the media tray or facing you in the manual feed slot.</p> <p>Refer to the "Maintaining your printer" section towards the end of this chapter.</p>
Printer only prints black and white.	<p>Wrong color mode selected on your application.</p> <p>Computer is using a LaserJet driver which only has a black and white mode.</p>	<p>Look for setting that "sends color to the printer".</p> <p>Use a DeskJet 1200C printer driver or another color driver.</p>

This table continues on the next page.



Troubleshooting
Printer operation problems

Printer Indications	Possible Problems	Solution
When printing, the left margin is shifted to the right; or the printer cuts off text and graphics before the right margin.	<p>Media may not have been fed straight during manual feed operation.</p> <p>Software is not correctly set for the type of media you are using.</p> <p>Wrong media size selected on the rear panel switches. (Only if no software setting).</p> <p>The media-width selector may not be set for the width of the media being used.</p>	<p>Be sure to manually feed paper into the printer as directed in "To load an envelope or label stock" procedure in chapter 4.</p> <p>Correct the software setting.</p> <p>Set the rear-panel switch for the proper media size.</p> <p>Set the media-width selector for Letter/Legal or A4.</p>
Poor print quality. (Streaks, fading, bleed)	Clogged print cartridge nozzles.	Clear the nozzles. Refer to the procedure "Print cartridge problems" in this section.
Printer does not print entire file.	File is too large for printer's memory.	Reduce file size or . . . Add more memory to printer. Refer to "Ordering information" section of this guide.
Erratic or interrupted network printing.	A loop or an unattached cable may be in the network.	Follow the cables through the network to find the problem. If you are using BNC cabling, be sure all T-connector ends are connected with a cable or "terminator".
Entire left column of lights are flashing.	The printer's self test has failed.	Return the printer for service. Refer to "Returning your printer for service" at the end of this chapter.
Printer does not print and MANUAL FEED, CHECK PAPER, and CHECK PRINT CARTRIDGES lights are flashing.	<p>Print cartridges not snapped fully forward in stalls causing carriage jam.</p> <p>The printer has a problem not related to print cartridges or media.</p>	<p>Be sure print cartridges are snapped fully forward. Refer to Print Cartridge Installation.</p> <p>Have your printer serviced. Refer to the "Getting Help" section towards the end of this chapter.</p>

This table continues on the next page.



Printer Indications	Possible Problems	Solution
PostScript language file does not print.	<p>You are using the DOS Copy command with the /B option.</p> <p>You are using the DOS print command.</p> <p>You may be on a network that sends a non-PostScript banner page to the printer before each print job. This may cause problems with the PostScript interpreter.</p> <p>You may be using the wrong application.</p>	<p>Your file may have a DOS end-of-file marker (control-Z) after the PostScript end-of-file marker (control-D). Use the copy command without the /B option.</p> <p>This command appends a form feed (control-L) to your PostScript language file which may cause a printing job to not print. Use the DOS Copy command without the /B option.</p> <p>Either turn off the banner page or alter the network to send a PostScript language banner page.</p> <p>Be sure your application can create and print PostScript language files.</p>
PostScript file does not print completely.	You may get a printed message: ERROR: limitcheck OFFENDING COMMAND: setpagedevice	You need more printer memory to print this image with the print quality and page size you chose in your driver.
In a few cases, normal graphics and scanned-image print quality are not good.	This may happen when you are in the "Paper – High Quality" mode. In some cases, the "Paper – High Quality" mode will not produce the best possible quality when you are printing scanned images or graphic areas with high densities of black. This problem will occur when using paper and not HP Transparencies.	Use the "Paper – Normal" mode in such cases for better print quality.

Print cartridge problems

Important

If one or more print cartridges is not printing at all, remove the faulty cartridge and check the print nozzles to make sure the protective tape has been removed.

Faulty circuitry can sometimes cause streaks or faded colors to appear in your print job. Try reseating each cartridge to ensure good electrical connection between the print cartridges and printer, then perform the self-test procedure.

Occasionally, air bubbles or paper dust can clog one or more nozzles on a print cartridge. To clear the nozzles and restore print quality, perform the self test beginning with step 1.

Run the self test

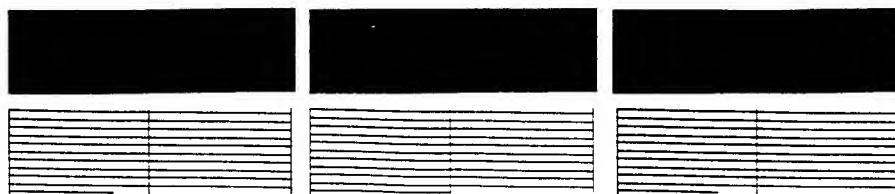
- 1 Make sure the printer is online. If not press the **Online** button.
- 2 Press and hold the **Shift** button, press the **Test** button, then release both to start the self test and see if you've fixed the problem. (There will be a slight delay during the start of the self test while the printer clears the print cartridge nozzles. This feature occurs every time the self test is started).
- 3 Compare your printing from the self test to the examples on the next page. Use the table that follows the examples to decide your next step.



Four color bars and lines on the self test should appear solid as shown below. The intensity of the colors will vary depending on the type of media (bond paper, special paper, glossy paper) used.

Each bar is
a solid color

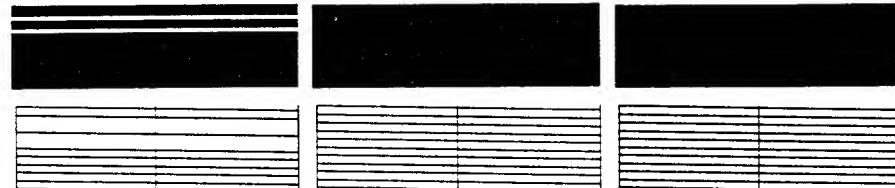
A



If any color bar has streaks as shown below, print cartridge nozzles may be clogged, and the corresponding cartridge needs to be cleared. Refer to "Clear the print cartridge nozzles" procedure in the following section.

Streaks appear in
bars due to clogged
cartridge nozzles

B



Gaps also appear
in lines.



Troubleshooting
Print cartridge problems

Printing	Result	Your Next Step
A	Problem fixed.	Try using your printer again.
B (any color bar incomplete)	Cartridge out of ink or cannot unclog.	If the self test does not unclog the cartridge nozzles, try clearing the nozzles manually (refer to "Manually clear the print cartridges nozzles" located after this self test procedure), then print a file from a software application.
Streaks appear in same area of all four bars.	Faulty print cartridge circuitry.	All four print cartridges use common circuitry. If any print cartridge is faulty due to common circuitry, it will show up on one or more color bars. You can perform the self test with one print cartridge at a time. Do this until you isolate the bad print cartridge. Replace the bad print cartridge with a new cartridge.

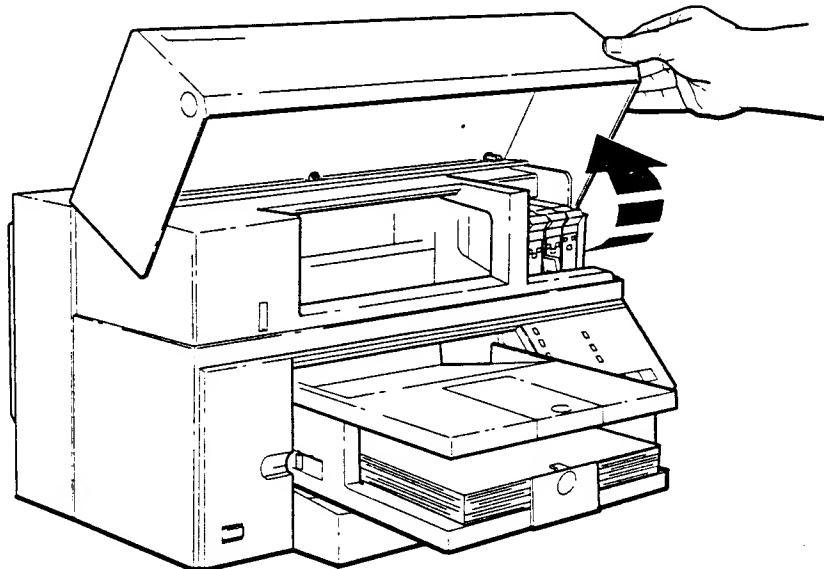
If you have performed the "Manually clear the print cartridge nozzles" procedure twice and you still get streaks in your print job, replace the print cartridge.

If streaks still occur in your print job with the new print cartridge, have your printer serviced.

Manually clear the print cartridge nozzles

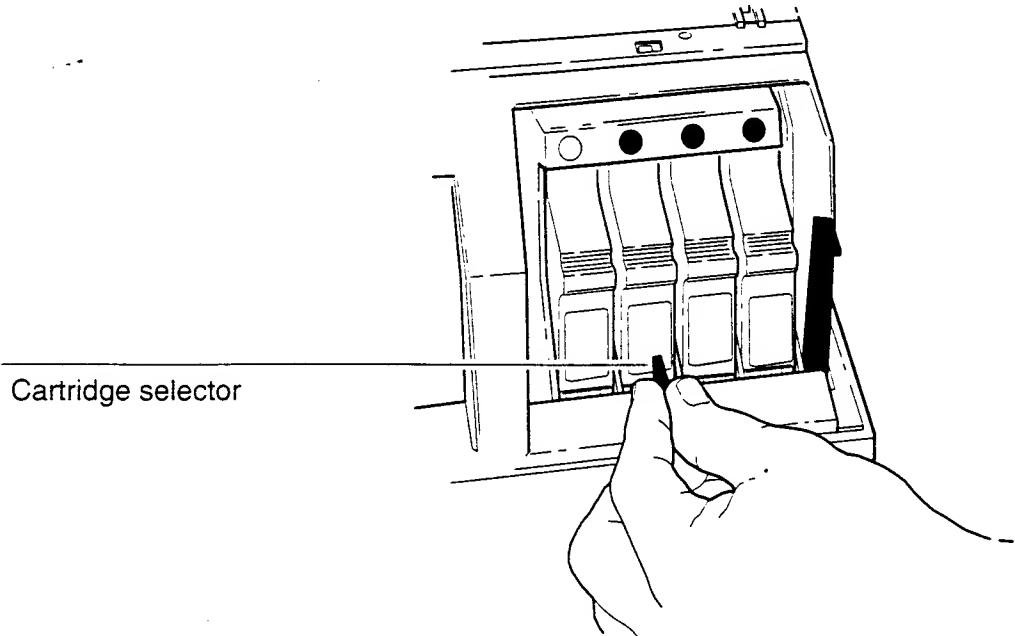
If a print cartridges is clogged (and running the self test will not clear it), try to clear it manually. Manually clearing the print cartridge produces a stronger clearing action on the print cartridge than the self test. This may clear the nozzles when the self test could not. If the print cartridge is still clogged after completing this procedure, replace the clogged print cartridge.

- 1 Look at your self test to see which cartridge (color) is printing incompletely.
- 2 Open the top cover.

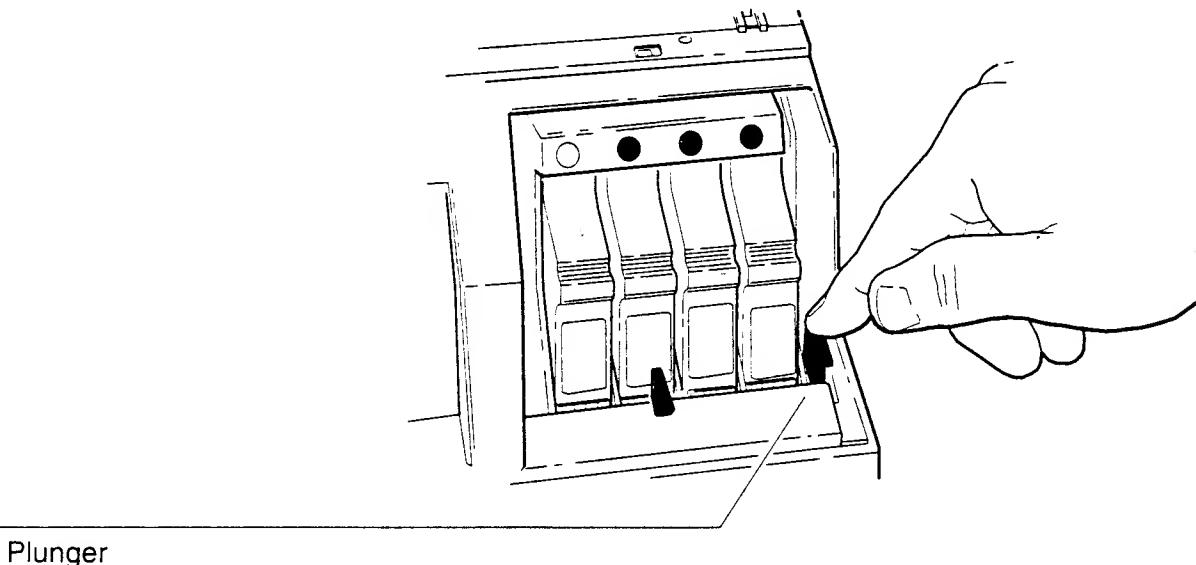


Troubleshooting
Print cartridge problems

3 Slide the cartridge selector to the print cartridge you want to clear. The illustration below shows the magenta print cartridge being selected.



4 Press the plunger on the side of the cartridge carriage down firmly once, then release.



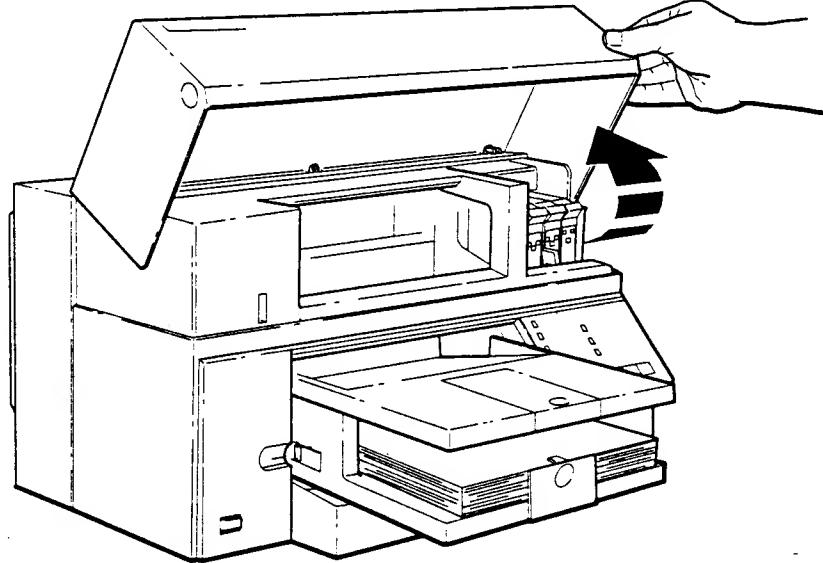
Jammed media

Media can get jammed inside the printer when:

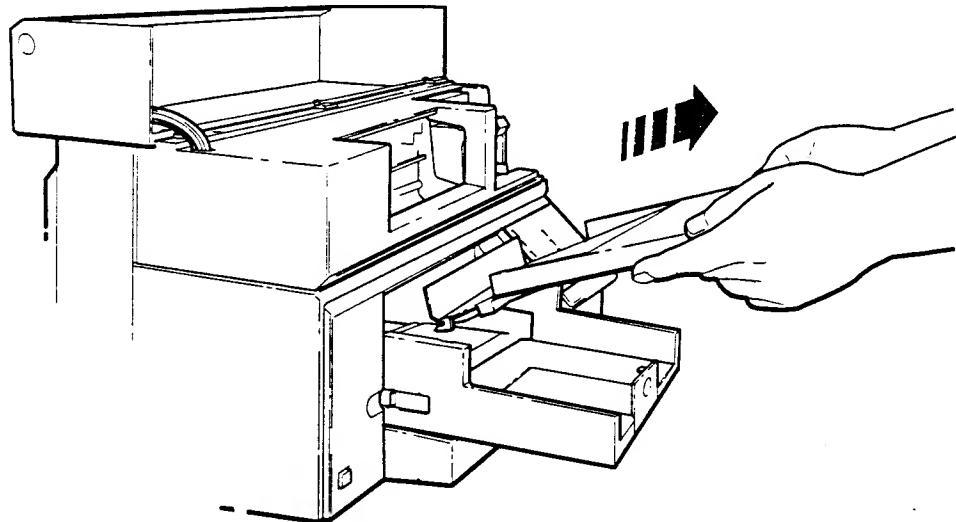
- Paper is not aligned properly in the printer.
- You are using the wrong type of media.
- You are using the wrong media size or weight.
- The media-size selector on the front of the printer is set wrong when trying to manually feed media in the manual-feed slot at the top of the printer.
- Media is wrinkled or bent.
- The printer fails mechanically.

If media becomes jammed in the printer, perform the following procedure.

- 1 Turn the printer off.
- 2 Raise the top cover. This action will make it easier to free the jammed media.



- 3 Remove the top media tray.



W A R N I N G

The preheater and heater guard inside the printer are hot. Allow the printer to cool before you attempt to remove media by hand or personal injury may occur.

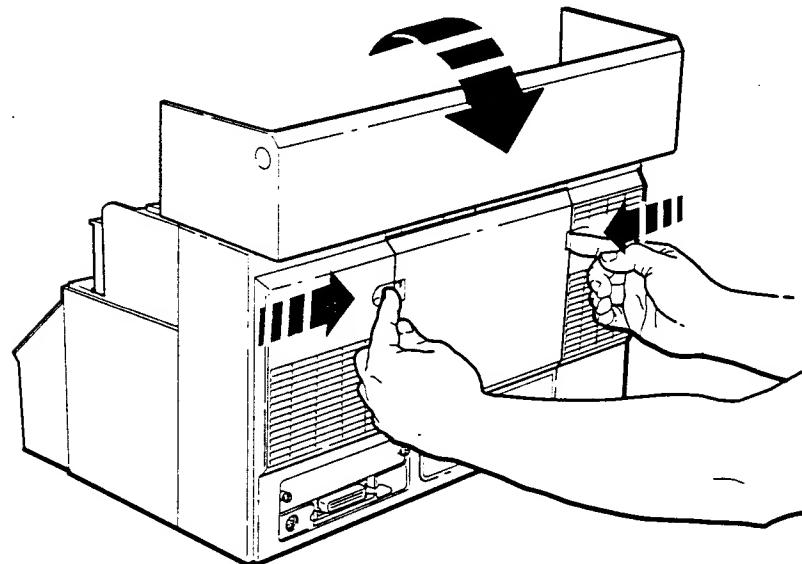
C A U T I O N

Do not use tools to remove media from the printer. This may damage the print surface.

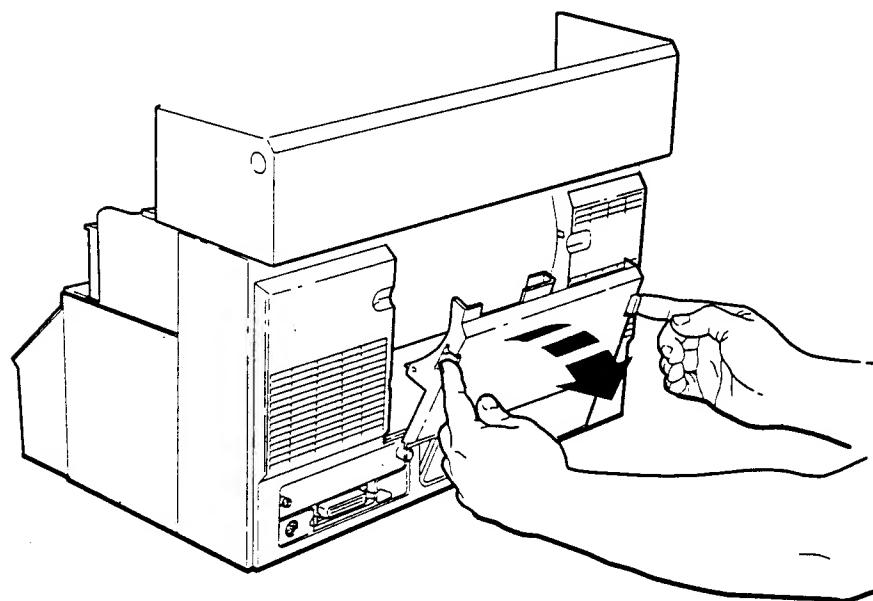
- 4 Remove the jammed media from the front of the printer. If you can not remove all of the jammed media from the front of the printer, continue with step 5.



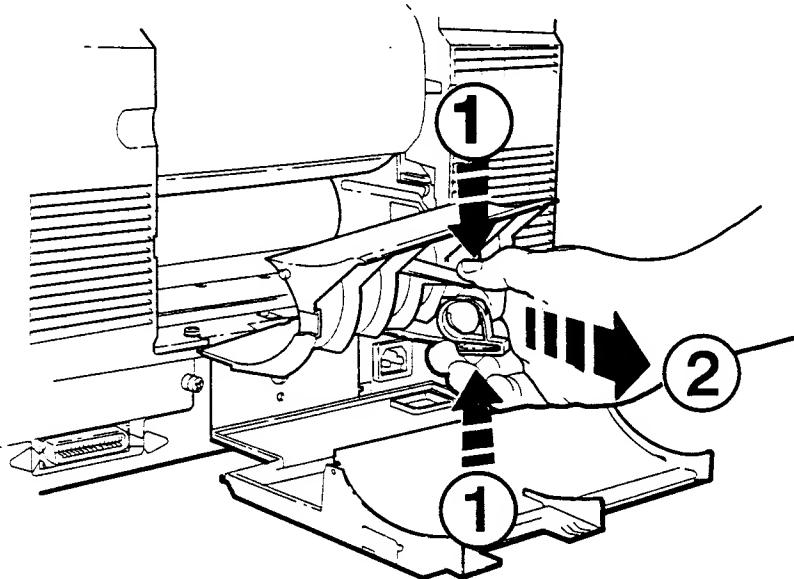
5 With the top cover still open, disconnect the power cord from the back of the printer and open the rear panel by pressing in the two tabs as shown below.



6 Lower the rear panel so that it lays down flat.



- 7 Grasp the media plug by squeezing the green ring towards the thumb rest, then pull outward.



W A R N I N G

The preheater and heater guard inside the printer are hot. Allow the printer to cool before you attempt to remove media by hand or personal injury may occur.

C A U T I O N

Do not use tools to remove media from the printer. This may damage the print surface.

- 8 Remove the jammed media from the back of the printer.
- 9 Replace the media plug.
- 10 Close the rear panel and top cover.
- 11 Connect the power cord into the back of the printer.

Maintaining your printer

Maintenance of the printer is limited to periodic cleaning. Your printer performs best in a clean and dust-free environment. Observe the following environmental conditions:

- Operate only at temperatures from 59° to 95°F (15° to 35°C) and in relative humidity from 20% to 80%.
- Store at temperatures from -40° to 158°F (-40° to 70°C).

Perform the following maintenance procedure as necessary.

- **Exterior maintenance** — Use a soft, damp, lint-free cloth to wipe dust, smudges, and stains off the printer's case.
- **Interior maintenance** — Inside the printer, residual ink may accumulate on the metal platen located between the pinch rollers. Periodically (depending on the volume and complexity of print jobs you do, or if you notice inadvertent color stains on your print job) clean the platen and pinch rollers with a damp, lint-free cloth. Use the following procedure:

- 1 With the printer on, insert a sheet of plain paper into the manual feed slot. The printer will feed the sheet forward for printing.
- 2 With the sheet in place, turn off the printer and raise the top cover.
- 3 Using a soft, damp, lint-free cloth, wipe the ink that has accumulated on the metal platen located between the pinch rollers. Also wipe the upper pinch rollers.
- 4 Lower the top cover and turn the printer on. The printer will automatically eject the sheet of paper. You may need to run a few sheets of plain paper through the printer until all residual ink is gone.

Getting help

Hewlett-Packard has support services available to help you in case you have a problem with your HP DeskJet 1200C printer. Following are suggestions of places to turn for this support.

Before you call for customer support, make sure you do the following:

- 1 Review this "Troubleshooting" chapter.
- 2 Perform the built-in self test in the "Print cartridge problems" section of this chapter.
- 3 Make sure you are using the correct interface cables and rear-panel switch settings, as explained in Chapter 3.
- 4 Check with your software vendor for help.

If you still have difficulty, begin by contacting the person who sold you your HP DeskJet 1200C. Your sales representative or dealer is familiar with your needs, equipment, and software and should be able to provide you with the information you want.

If you don't get the answers to your questions from your dealer or sales representative, you may contact HP's Customer Support Center (U.S. only). The Customer Support Center staff can provide you with help by answering questions on your printer or accessories supplied with your printer. Their phone number is listed on the next page.

Outside the U.S., you may contact your HP Country Service Center. Refer to the Warranty Information booklet that came with your printer for the service center in your country. If there is no listing for your country, your dealer or sales representative can assist you.



When you call the HP's Customer Support Center line, please have the following information available to help us answer your questions more quickly.

- Identify what computer you are using and your printer serial number.

- Identify any special equipment or software you are using (for example, spoolers, networks, switch-boxes, modems, or special software drivers).

- Identify what cable you are using (by part number) and where you purchased it.

- Identify the interface you are using with your printer (parallel or JetDirect card) and any extra options (memory, PostScript, typeface cartridges).

- Identify the printer driver name and version (shown on the self test), and software application name and version you are currently using.

The HP Customer Support Center service is available from 7 am – 6 pm (Mountain Standard Time), Monday through Friday, except Wednesday when we close at 4 pm.

(208) 323-2551

Should the printer require service, refer to "Returning your printer for service" on the next page for instructions.

Returning your printer for service

If your printer requires service, contact the Hewlett-Packard dealer or sales representative where you purchased the printer.

If you need to ship your printer, be sure it is packed in a protective carton. We recommend that you save the original shipping container for this purpose. In-transit damage is not covered by the warranty, so you should always insure your shipment.

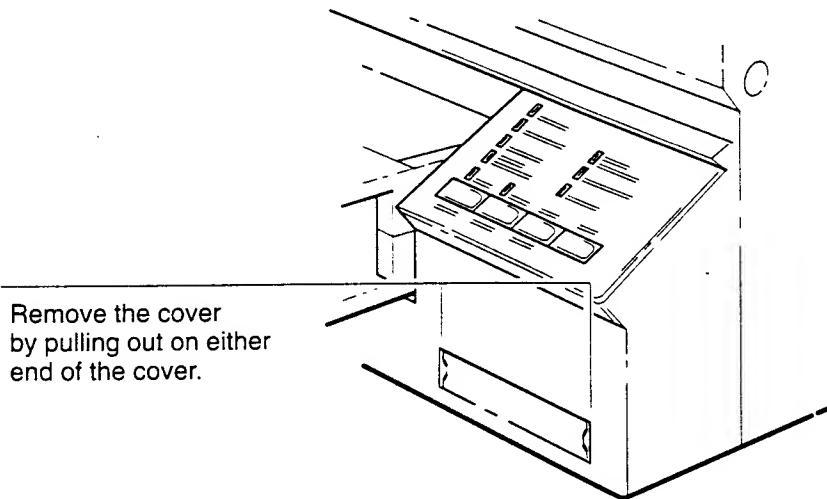
You can help assure effective servicing of your printer by following these guidelines:

- 1 Follow the troubleshooting instructions in this chapter to make certain the problem is in your printer and not the result of configuration problems or a malfunction in your computer or software. If possible, identify the defective function.
- 2 If repair is required, please include these items when returning the printer.
 - The power cord.
 - A description of the exact configuration at the time of the problem, including the interface cable, computer and peripherals, and software in use.
 - A brief description of symptoms for service personnel (samples of print quality problems are helpful).
 - If purchased through an HP dealer, a copy of the sales slip or other proof of purchase to establish the warranty coverage period.
 - Your name, address, and a phone number where you may be reached during the day.

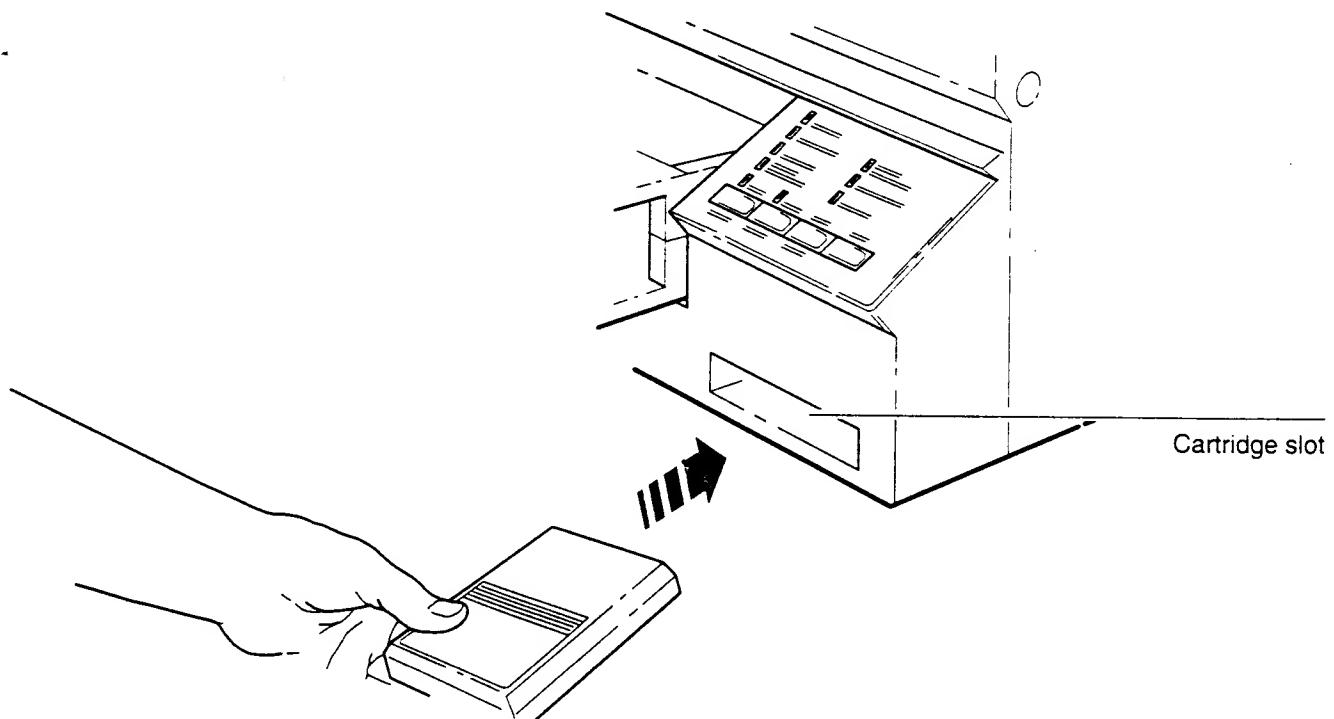
Installing printer options

Installing a typeface cartridge

- 1 Turn the printer off by pressing the **On/Off** button (all control-panel lights will go off).
- 2 Remove the cartridge slot cover.



- 3 Insert the typeface cartridge into the cartridge slot as shown below. Push firmly until the cartridge is in place.



- 4 Turn the printer on by pressing the **On/Off** button.
- 5 Print a self-test page to confirm installation.

The self-test page will tell you the name of the typeface cartridge installed. If the typeface cartridge is not installed correctly, the printer will not recognize the installation and read "Typeface Cartridge: None."

Installing PostScript or additional memory

This section provides basic information on installing the PostScript card and, optionally, additional memory for your HP DeskJet 1200C printer.

Important

The PostScript board and/or optional memory may have already been installed. To determine if the board is present and how much memory is installed, print the self test.

Different types of printing tasks require different amounts of memory be installed in your printer to successfully complete the tasks. A minimum of four megabytes of memory is required to use PostScript printing. Two megabytes of memory comes standard with the printer and two megabytes of memory is included with the PostScript card. Four megabytes of additional memory is required to ensure printing complex jobs on a page.

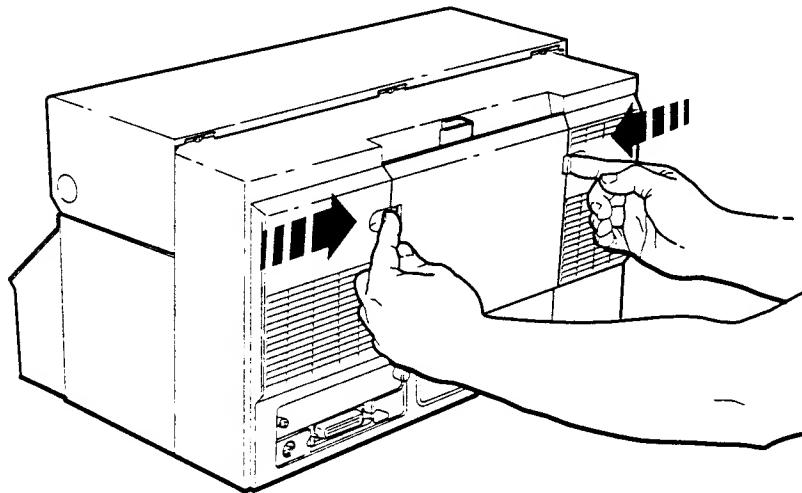
The HP DeskJet 1200C/PS is expandable to 20 megabytes. If you require additional memory, refer to the Ordering information section of this User's Guide.



CAUTION

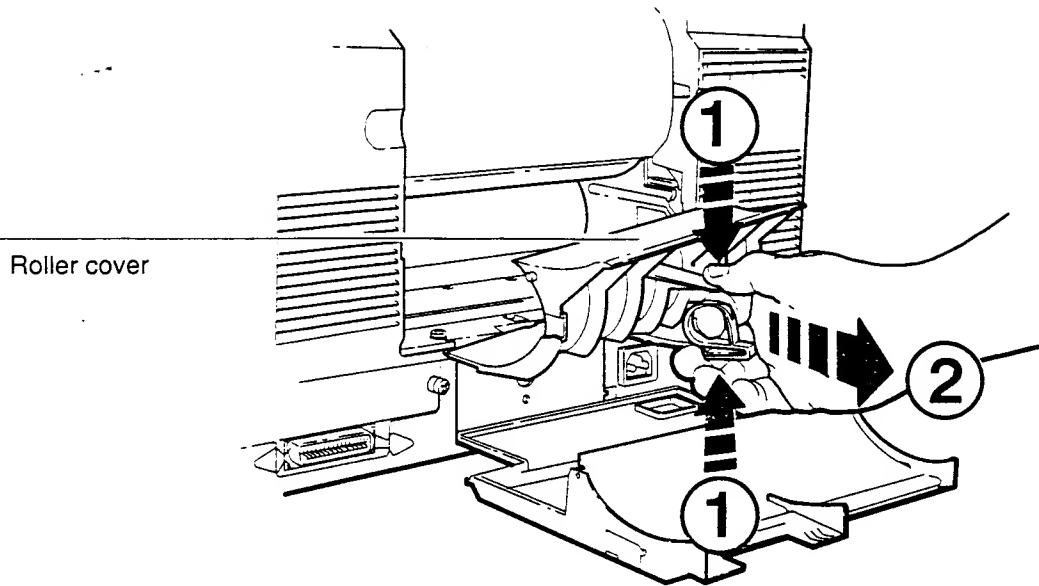
Because the PostScript card and memory expansion card contain parts that are easily damaged by small amounts of static electricity, you need to take precautions such as using grounding devices and maintaining contact with any bare metal surface on the printer while handling the memory expansion card. Handle the card carefully at all times. Avoid touching the card components or circuit paths. Be sure to replace the memory expansion slot cover after installing the memory card to prevent dust from accumulating inside the printer.

- 1 Turn off the printer and remove the power cord.
- 2 Open the rear panel by pressing the tabs as shown below.

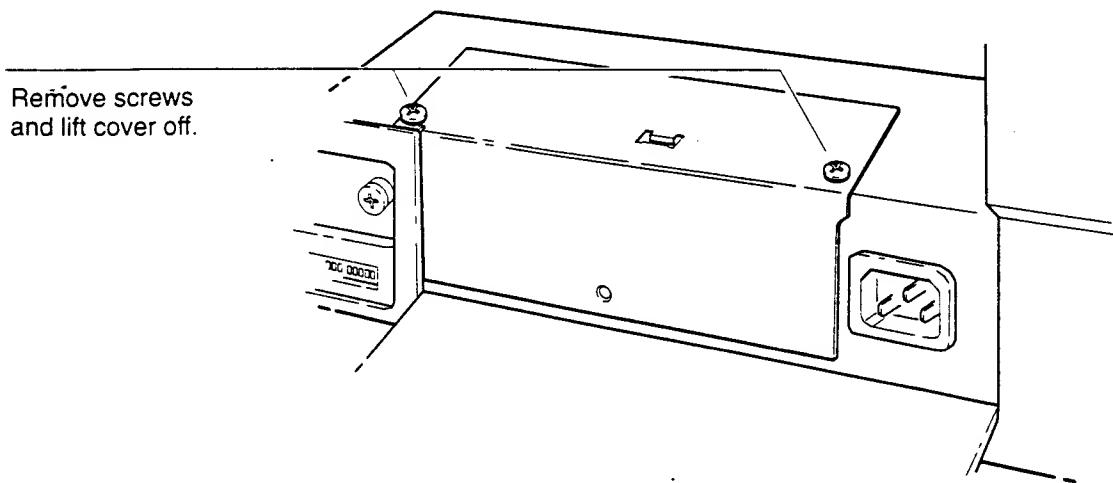


Installing printer options
PostScript and memory

3 Remove the media plug.



- 4 Using a flat-blade screwdriver, remove the memory expansion cover.



There are three Single In-line Memory Module (SIMM) slots. As you look at the slots from the back of the printer, the slot closest to you is slot 1, followed by slot 2, then slot 3. A SIMM card can be installed in any of the three slots.

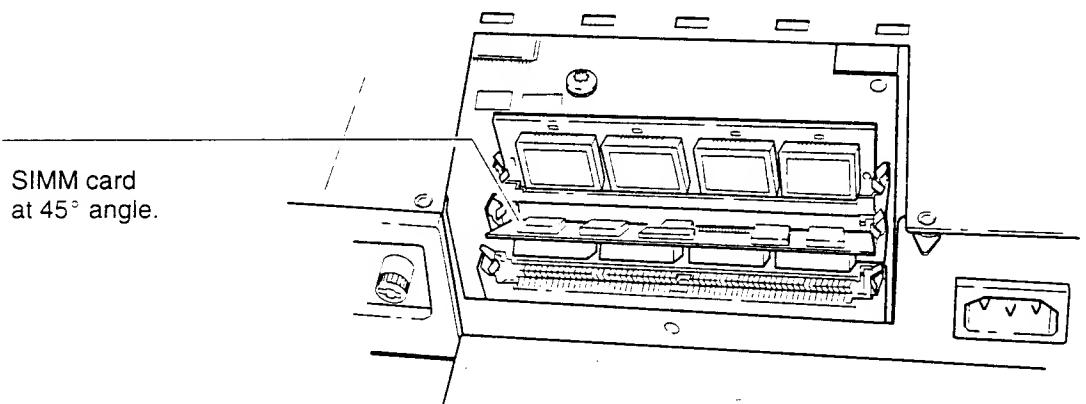
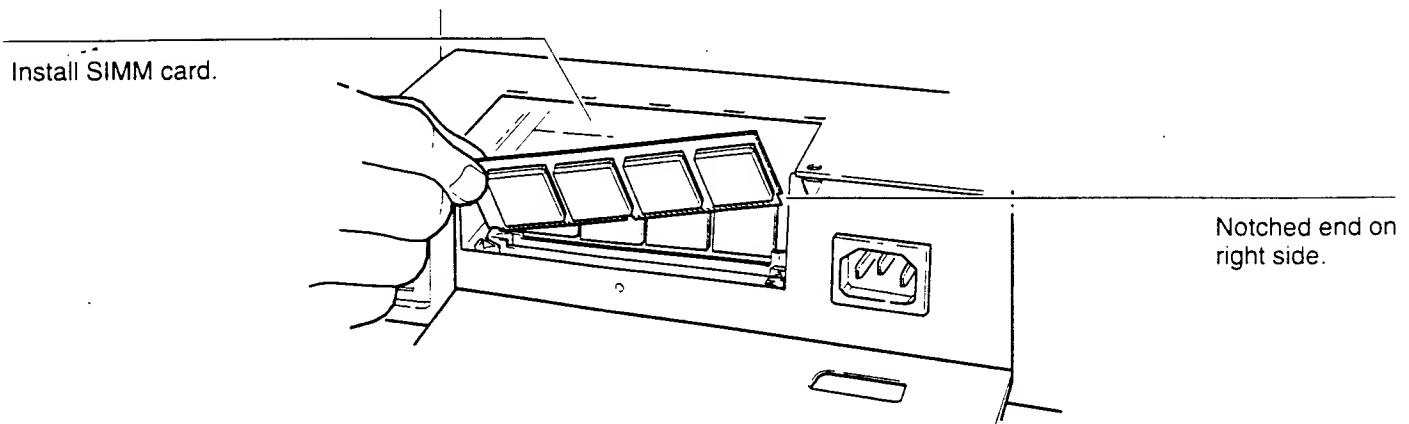
If your printer is set up for PostScript, slot 3 will have a PostScript card already installed. While a SIMM card can be installed in any slot, a PostScript card can only be installed in slot 3.

- 5 Open the memory expansion kit package that you purchased and remove the SIMM card.



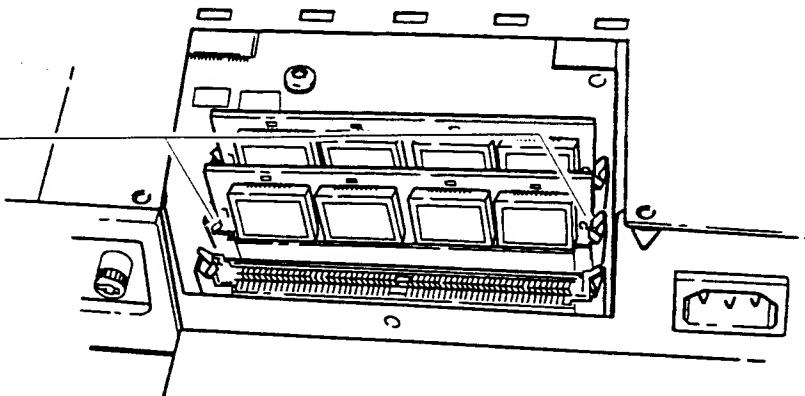
Installing printer options
PostScript and memory

6 Insert the SIMM card at a 45° angle into a SIMM slot. The notched end must be on the right side.



- 7 Rotate the SIMM card to a 90° angle (perpendicular to the main board). Ensure that the card is secured to the board by a small metal clip at each end.

Secure card with metal clips



- 8 Replace the memory expansion cover and install the two screws to secure the cover.
- 9 Replace the media plug, close the rear panel, and attach the power cord.
- 10 Turn the printer on and perform the self test. The self test will determine if the PostScript card or memory cards have been installed correctly and print a summary of the memory capacity and PostScript installation. A PostScript configuration page will also be printed.

Technical information

Regulatory notices

**FCC Statement
(U.S.A.)**

The United States Federal Communications Commission (in 47 CFR 15.838) has specified that the following notice be brought to the attention of users of this product.

'This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interferences by one or more of the following measures:

- reorient the receiving antenna
- increase the separation between the equipment and the receiver
- connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- consult the dealer or an experienced radio/TV technician for help

The user may find the following booklet prepared by the Federal Communications Commission helpful: How to Identify and Resolve Radio-TV Interference Problems. This booklet is available from the US Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.'

CAUTION

Pursuant to Part 15.21 of the FCC Rules, any changes or modifications to this equipment not expressly approved by the Hewlett-Packard Company, may cause harmful interference and void the FCC authorization to operate this equipment.

With the exception of HP-IB, installing any JetDirect interface card in an FCC Level B product results in an FCC Level A Composite System as defined in the FCC Rules and Regulations.

Telecommunications General Approval (UK) Pursuant to Section 22 of Telecommunications Act of 1984 this product is approved for secondary attachment to approved primary attachment devices connected to the telecommunication network under the General Approval (NS/G/1234/5/100003).

DOC statement (Canada) Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Geräuschemission LpA < 70 dB
am Arbeitsplatz
im Normalbetrieb
nach DIN 45635 T. 19

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Declaration of conformity

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name: Hewlett-Packard Company

Manufacturer's Address: 16399 West Bernardo Drive
San Diego, California U.S.A. 92127

declares that the product

Product Name: HP DeskJet 1200C and HP DeskJet 1200C/PS

Model Number: HP C1676A and HP C1686A

Product Options: J2371A*, J2372A*, J2373A*, (2)
J2341A*, and C1642A:
HP JetDirect Interface Cards

conforms to the following Product Specifications:

Safety: EN60950 / UL1950 / CSA 22.2 No. 950
NOM-I-171 / IEC 950 / EMKO TSE(74)DK203/92

EMC: EN 55022 (1988) / CISPR 22, Class B (1)
IEC 801-2/prEN 55024-2 (1991), 3kV CD, 8kV AD
IEC 801-3/prEN 55024-3 (1992), 3 V/m
IEC 801-4/prEN 55024-4 (1992)
FCC Part 15 Class B
DOC B
VCCI-2

Supplementary Information: (1) The C1676A and C1686A were tested in a typical configuration using a Hewlett-Packard Personal Computer.
(2) * These options exhibit Class A operation.

Functional Specifications

Feature	Specifications
Throughput (letter-size, text)	
Fast print mode:	7 pages per minute
Normal print mode:	6 pages per minute
High Quality print mode:	4 pages per minute
Throughput (letter-size, graphics)	
Fast print mode:	1 minute per page
Normal print mode:	2 minutes per page
High Quality print mode:	2 minutes per page
Transparency, glossy	3 minutes per page
Printable width (8 inches)	80 characters at 10 cpi 96 characters at 12 cpi
Form Feed Rate	8 seconds per 11-inch page
Memory size (HP DeskJet 1200C)	2 Megabytes expandable to 26 Megabytes
(HP DeskJet 1200C/PS)	4 Megabytes expandable to 20 Megabytes
I/O	Centronics (standard) Single slot for one of the following: HP-IB, EtherTalk, Novell, TCP-IP LAN Manager, LocalTalk, and 3rd-party cards adhering to MIO 5.0 specification

Functional Specifications, Continued

Feature	Specifications
Media sizes	Letter-size (8.5 by 11 in.) Legal-size (8.5 by 14 in.) A4-size (210 by 297 mm)
Media thickness	16 to 24 lb (60 to 90 g/m ²)
Label stock	LaserJet and DeskJet
Envelopes	U.S.: #10 International: DL and C5
Resolution (dpi)	color: 300 by 300 dpi black: 600 by 300 dpi (effective) using resolution enhancement
Dot Spacing	0.0033 in. (center to center)
Text Colors	Up to 16.8 million
Languages	HP-GL/2, PCL5C, PJL, and PostScript Level 2

Environmental Specifications

Feature	Specifications
Operating Ranges: (printer)	Mechanical & Electrical: 15° to 35°C at 20% to 80% RH
	With pens and media: 15° to 35°C at 20% to 80% RH
	Optimal print quality and media handling: 15° to 35°C at 20% to 80% RH
(print cartridges)	5° to 40°C
Non-operating Ranges: (printer)	-40° to 70°C at 5% to 95% RH
(print cartridges)	-40° to 60°C

Physical Specifications

Feature	Specifications
Height	11.25 in. (285.8 mm)
Width	19 in. (482.6 mm)
Depth	17.50 in. (444.5 mm) with tray 12.00 in. (304.8 mm) without tray
Weight	27 lb (12.25 kg)

Power Specifications

Feature	Specifications
Source voltage	100 to 240 V $\pm 10\%$
Frequency	50/60 Hz

Ordering information

Ordering information

Accessories

Printer Accessories

Item	HP Part Number
Print cartridge, black	51640A
Print cartridge, cyan	51640C
Print cartridge, magenta	51640M
Print cartridge, yellow	51640Y
CX JetSeries CutSheet Paper, Letter (200 sheets, 8.5 by 11 in.)	51630Y
CX JetSeries CutSheet Paper, A4 (200 sheets, 210 by 297 mm)	51630Z
LX JetSeries Glossy Paper, Letter (50 sheets, 8.5 by 11 in.)	51636H
LX JetSeries Glossy Paper, A4 (50 sheets, 210 by 297 mm)	51636J
LX JetSeries Transparency Film, Letter (50 sheets, 8.5 by 11 in.)	51636F
LX JetSeries Transparency Film, A4 (50 sheets, 210 by 297 mm)	51636G

Printer Accessories, continued

Item	HP Part Number
HP-GL/2 Reference Guide	5959-9733
HP-GL/2 Comparison Guide	5959-9734
PCL 5 Printer Language Technical Reference Manual and PCL 5 Comparison Guide (PCL document package)	33481-90969
Parallel interface cable	C2912A
LocalTalk cable (direct connect)	92215S
LocalTalk Connector Kit (network)	92215N
Control-panel overlay (English)	C1676-60041
Control-panel overlay (Danish)	C1676-60042
Control-panel overlay (Swedish)	C1676-60043
Control-panel overlay (German)	C1676-60044
Control-panel overlay (French)	C1676-60045
Control-panel overlay (Spanish)	C1676-60046
Control-panel overlay (Italian)	C1676-60047
Control-panel overlay (Japanese)	C1676-60048
Control-panel overlay (Dutch)	C1676-60049
Control-panel overlay (Norwegian)	C1676-60050
Control-panel overlay (Finnish)	C1676-60051

Ordering information

Accessories

Printer Accessories, Continued

Item	HP Part Number
HP JetDirect Card (Ethernet with 10baseT connector) for Novell NetWare, Microsoft LAN Manager, Windows for Workgroups, and Apple EtherTalk. (Also HP-UX, SunOS, and SCO UNIX via TCP/IP protocol)	J2371A
HP JetDirect Card (Ethernet with 10baseT and BNC connectors) for Novell NetWare, Microsoft LAN Manager, Windows for Workgroups, and Apple EtherTalk. (Also HP-UX, SunOS, and SCO UNIX via TCP/IP protocol)	J2372A
HP JetDirect Card (Token Ring with DB9 connector) for Novell NetWare, Microsoft LAN Manager, Windows for Workgroups, and Apple EtherTalk. (Also HP-UX, SunOS, and SCO UNIX via TCP/IP protocol)	J2373A
HP JetDirect Card for LocalTalk	J2341A
HP JetDirect Card for HP-IB	C1642A

Printer Accessories, Continued

Item	HP Part Number
PostScript Upgrade	C2865A
1 Mbyte SIMM memory	C2063A
4 Mbyte SIMM memory	C2065A
8 Mbyte SIMM memory	C2066A
HP DeskJet 1200C User's Guide	
English	C1676-90001
Spanish/French	C1676-90002
Swedish/Finnish	C1676-90003
German	C1676-90004
French	C1676-90005
Spanish/Italian	C1676-90006
Norwegian/Danish	C1676-90007
Japanese	C1676-90008
Dutch	C1676-90009

Additional documentation

The *HP DeskJet 1200C User's Reference* contains information that is more detailed than what is used in this User's Guide. If you do not have a User's Reference, you can obtain one by removing the User's Reference request card in the front of this manual and mailing it to the address shown.

The *HP-GL/2 Reference Guide* contains complete explanations of the Hewlett-Packard Graphics Language. The companion document, the *HP-GL/2 Comparison Guide*, covers extensions to the basic instruction set and product-specific details.

The *PCL 5 Printer Language Technical Reference Manual* and *PCL Comparison Guide* contains complete explanations of the Hewlett-Packard Printer Control Language instructions. This manual package is a valuable tool for writing your own PCL programs.

Order any of the documentation listed below if you want information pertaining to typefaces.

Item	HP Part Number
The Long and Short of HP Scalable Type	5091-1327
The Unabridged HP MasterType Library Encyclopedia	5091-0580
MasterType Library Selection Guide	5091-3491

How to order HP DeskJet 1200C accessories and supplies

In the U.S. you may order printer accessories and supplies by calling HP Direct, 1-800-538-8787, to get the name of your local authorized HP dealer.

Outside the U.S. call your local authorized HP dealer.

Using HP FIRST

Hewlett-Packard's Fax Information Retrieval Support Technology (HP FIRST) provides access to frequently requested information 24 hours a day, 7 days a week. Both dealers and customers can access HP FIRST from a touch-tone, 9600-baud, Group 3 Fax machine. Hewlett-Packard offers this service free of charge.

Follow these steps to receive information via Fax from HP FIRST:

- 1 Dial **(208) 344-4809** from the Fax machine's handset.
- 2 When HP FIRST prompts you, select the product category or topic for which you wish to obtain information (for example, PC Peripherals).
- 3 If you already know the four-digit ID number of the document you would like to receive, press [1]. If you would like to receive a listing of available documents and their four-digit ID numbers, press [2].
- 4 HP FIRST will prompt you to enter the four-digit ID number for each document.
- 5 When HP FIRST prompts you, press the [Start/Copy] or [Receive] button on your Fax machine, then hang up the handset.
- 6 You will then receive the requested support literature and information. The time required to receive the information will vary depending on the length and complexity of the documents requested.

Glossary

application Short for application program, a software package that does a specific task, such as word processing, text formatting, or graphics.

bitmapped (1) A set of bits that represents the graphic image of an original document in memory. (2) A set of bits that represents the positions and states of a corresponding set of items, such as pixels. In QuickDraw, a pointer to a bit image, the row width of that image, and its boundary rectangle. Used by the Macintosh to construct graphic images and typefaces.

bitmapped font A font whose characters are formed by patterns of tiny dots. Bitmapped fonts are always a specific point size.

buffer A segment of the computer's or printer's memory where information is held until it can be processed.

cable An insulated bundle of wires with connectors on the ends. Examples are serial cables and LocalTalk cables.

clear To clear out any air bubbles in the print cartridge that are obstructing ink flow through the nozzle plate.

click To position the pointer on an **object** or **icon**, then press and quickly release the mouse button.

connector A plug, socket, jack, or port.

default A value or condition that is assumed when the printer is powered on. Also, a preset selection in a dialog box that is automatically used by the computer if you do not make a different selection.

desktop Your working environment for the Macintosh computer, for Windows in a PC, or workstation windows.

device name The name used in pathnames to refer to a particular device without regard to the files associated with the device.

Glossary

dialog box A box containing a message requesting more information from you. The message may be a warning that you are asking the computer to do something that it can't do, or that you are about to destroy some information. In these cases, the message is often accompanied by a beep.

disabled Describes a menu item or menu that cannot be chosen; the menu item or menu title appears dimmed. A disabled item in a dialog or alert box has no effect when clicked.

double-click To position the pointer where you want the next action to take place, and then press and release the mouse button twice in quick succession without moving the mouse. Double-clicking is a quick way of doing common tasks such as opening documents.

downloading The process of transmitting font data from computer to printer memory.

dpi Dots per inch. DPI describes the number of ink dots printed within one horizontal inch, also known as the resolution of bitmapped images on the printer. The HP DeskJet 1200C prints images at 600 by 300 dpi.

driver A computer file that controls the operations of a printer device. It requires font metrics to use fonts. (Usually "printer driver").

eject (1) To remove a disk from a disk drive. (2) To move paper out of the printer.

file A collection of related information stored on a disk such as document, a folder, a system file, a resource, or an application.

font A complete set of characters in one design and style. In traditional typographical usage, font may be restricted to a particular size or may comprise several sizes and styles of the typeface design.

handshake A method of communication between a computer and printer about the availability of buffer space (memory) in the printer. A handshake ensures correct and complete data transfer.

internal typeface A typeface stored in the printer's internal read-only memory. An internal typeface is printed when the printer is in text mode (that is, not printing graphics) and receives printable ASCII characters. See also **printer font**, **screen font**.

network A collection of interconnected, individually controlled computers, together with the hardware and software used to connect them. A network allows users to share data and peripheral devices such as printers and storage media, to exchange electronic mail, and so on.

network connection A combination of hardware and software that lets you set up the unique interconnections of various networking systems.

off-line Not currently connected to or under the control of the computer. Used to refer to equipment such as printers and disk drives, information storage media such as disks, and the information they contain. Compare **on-line**.

on-line Currently connected to and under the control of the computer. Used to refer to equipment such as printers and disk drives, information storage media such as disks, and the information they contain. Compare **off-line**.

parallel interface An interface type in which a separate line is used for each data bit in a byte or word, and all bits are transferred simultaneously.

pixel Short for *picture element*; the smallest dot you can draw on the screen or printer.

Glossary

point A unit of measurement for type. One point is 1/72 of an inch. Character height is given in points. For example, 12 point type is 1/6 of an inch high.

port A socket on the back panel of a computer where you plug in a cable for connection to a network or a peripheral device.

print cartridge The casing that holds the ink used in printing. The DeskJet 1200C has four cartridges: one each containing black, cyan, magenta, and yellow ink.

resolution A measure of image (display or print) sharpness expressed as number of dots per inch (**dpi**). The higher the value, the finer the detail of the image.

sans serif Without serifs (see **serif**); A sans-serif M looks like this: **M**.

scalable typeface Scalable typefaces are character outlines described by a mathematical formula. This information is used to shrink or enlarge the typeface to virtually any point size.

scaling The process of shrinking or enlarging a typeface to create fonts of different point sizes.

serif Serifs are fine strokes that finish off the main strokes of a letter — like the little “feet” on the bottom of the vertical strokes in the letter **M**.

startup disk The disk that contains the System file that the Macintosh computer needs to get started. A startup disk must have a least a Finder and a System file. The HP DeskJet 1200C software must be installed on a startup disk. Sometimes called a *boot disk*.

type director HP's font management program; software which allows you to scale HP's disk-based scalable typefaces for HP LaserJet and PaintJet printers.

WYSIWYG What-You-See-Is-What-You-Get. How text and graphics look on your computer screen is how they'll look on your printed document.

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One-Year Limited Hardware Warranty

Except when used as part of an HP system, Hewlett-Packard warrants your graphics peripheral hardware product against defects in materials and workmanship for a period of one year from receipt by the end user. If HP receives notice of such defects during the warranty period, HP will either, at its option, repair or replace products which prove to be defective.

Should HP be unable to repair or replace the product within a reasonable amount of time, customer's alternative exclusive remedy shall be a refund of the purchase price upon return of the product.

If this product was purchased as part of an HP system in a coordinated shipment or as a system add-on, it is warranted against defects in material and workmanship during the same period as the HP system.

Exclusions

The above warranty shall not apply to defects resulting from: improper or inadequate maintenance by customer; customer-supplied software or interfacing; unauthorized modification or misuse; operation outside of the environmental specifications for the product; or improper site preparation and maintenance.

Obtaining Warranty Service

No warranty registration card is supplied. To obtain warranty service, customer must supply proof of the purchase date. Products must be returned to a service facility designated by HP. Warranty service for products purchased as part of a system will be subject to service in accordance with the system support services.

Customer shall prepay shipping charges for products returned to HP for warranty service and HP shall pay for return of the products to customer. However, customer shall pay all shipping charges, duties, and taxes for products returned to HP from another country.

Warranty Limitations

HP makes no other warranty, either expressed or implied. HP disclaims any implied warranty of merchantability or fitness for a particular purpose. Some states or provinces do not allow the exclusion or limitation of an implied warranty, so the above limitation or exclusion may not apply to you. However, any such implied warranty is limited to the duration of the written warranty.

This warranty gives you specific legal rights, you may also have other rights which may vary from state to state, or province to province.

The remedies herein are customers sole and exclusive remedies. In no event shall HP be liable for direct, indirect, special or consequential damages. Some states or provinces do not allow the exclusion or limitation of consequential damages, so the above limitation or exclusion may not apply to you.

Consumer transactions in Australia: The above limitations shall not apply and shall not affect the statutory rights of a consumer.

Obtaining Service During Warranty Period

If your hardware should fail during the warranty period, read the chapter in this guide entitled "Troubleshooting," then contact your local Hewlett-Packard Sales and Service Office or an Authorized HP Personal Computer Dealer Repair Center.

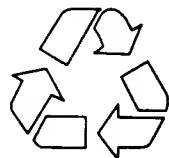
After the Warranty Period

If your hardware should fail after the warranty period, read the chapter in this guide entitled "Troubleshooting", then contact an Authorized HP Personal Computer Dealer Repair Center or call our HP Sales and Service Office for details of the services available.

Returning Your Product for Service

If you need to ship your product, be sure it is packed in a protective carton. We recommend that you save the original shipping container for this purpose. In-transit damage is not covered by the warranty, so it is best to always insure shipments.

List the serial number of the product and the exact configuration at the time of malfunction, including the interface cable, computer, peripherals, and software (program) in use. Include a description of the symptoms for service personnel. If purchased through an HP dealer, include a copy of the sales slip or other proof of purchase to establish the warranty coverage period. You should also include your name, address, and daytime phone number.



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